



**EMBO & EMBC  
annual report 2003**

**European Molecular  
Biology Organization**

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Frank Gannon,  
Executive Director  
European Molecular  
Biology Organization  
(EMBO) and  
Secretary General  
European Molecular  
Biology Conference  
(EMBC)

In 2004 EMBO will celebrate 40 years of formal existence. Already in 1963 the founding members of EMBO had met, discussed the justifications for the establishment of an organization such as EMBO and announced its goals, which ranged from starting an international laboratory (which became the EMBL) to providing high-quality training through fellowships, practical courses and workshops in Europe. As they finalised the formalities of an organization (which came into existence in July 1964), they also turned their attention to getting funding for their dreams. The start-up funding for EMBO came from the Volkswagen Foundation, an act for which European science remains eternally grateful. The leaders of EMBO rapidly sought governmental funding and, 35 years ago, the discussions on establishing such intergovernmental support (the European Molecular Biology Conference) were nearing a conclusion. The founders of EMBO and its funders, the EMBC, would surely have looked at the scientific environment in Europe at that time and seen both the challenges and opportunities that existed, and they chose to support an international programme. The core principles of EMBO have not altered since its foundation. In the interim, there have been many initiatives launched

by EMBO. Each of these responds to a challenge, a necessity and an opportunity. The organization, through the EMBO Council and its committee system, has the opportunity to analyse in depth the benefits of any new initiative. When it is launched, the constant criteria are that it must be delivered with a high level of professionalism and quality based on a selection process. The array of activities of EMBO today allows it to speak with the authority of an organization that is sensitive to the various needs of European science and sensible in the manner in which it responds to them.

Although the timeline of the activities highlights those that were initiated by EMBO, a similar timeline with the five-year lag could be traced for the EMBC. The EMBC was established to fund the EMBO Fellowship, Courses and Workshops Programmes and to establish the EMBO Laboratory. But its Statutes also made provision for an expansion of the programme, as was warranted over the years, and in 2003 the conference added Science & Society related actions to its range of programmes. In 2002 the EMBC and EMBO adopted a nine-year programme that, while ambitious in its scope, was based on a very detailed analysis by different groups of the exact role that both organizations should play in today's scientific

context. The EMBO Council has engaged in a similar thorough analysis and will, it is hoped, conclude this process in 2004 with multi-annual commitments to the programmes that have been launched. From my perspective, the needs that brought various new developments into existence have not diminished in the last few years. Rather, they have increased and, hence, the responsibility of the organization to the scientific community in ensuring that science in Europe receives the support it needs, is even greater. This applies whether one considers promising postdocs, scientists struggling to communicate better with society, scientists starting their own laboratories, women who are trying to relaunch their scientific careers, countries requiring honest and independent external assessment, scientists in Europe who wish to improve contacts and collaboration with researchers around the world, or scientists who need improved methods of data analysis. The joint EMBO and EMBC annual report can serve as a reminder of the many important actions that EMBO is engaged in and, hence, encourage a renewed commitment to the role of EMBO in European science. The programme that was established in 1963 by EMBO's founders was ambitious for that era. EMBO will only

thrive by responding ambitiously to the requirements that it identifies now.

In addition to the delivery of a variety of programmes, 2003 also saw EMBO at the forefront of discussions and dialogue on the European Research Council. As I write, the signs for the establishment of a European Research Council are more positive than ever, and yet I realise that the task is not complete. If a European Research Council comes into existence and provides funding for high-quality basic research, then EMBO, among others, can take credit for that happening. However, it should be realised also that EMBO's voice would not have been heard, nor would it have been invited to participate in the various debates on this topic, if the functioning of the organization were not viewed by the outside in such a positive way. Our task now is to maintain this level of performance. I hope that through the annual report of 2003 you will be able to see why those outside the organization look to it for guidance, as a role model for other scientific sectors in Europe and as a leading voice for the scientific community described as molecular biologists.





Susan Gasser,  
Chair of the EMBO Council

They say life begins at 40. As EMBO rounds this bend, it is a good time to reflect on what EMBO means and has meant to European science. The core activities of the EMBO Fellowship Programme and the Courses and Workshops Programme, have been pursued for most of its existence with ever-increasing demand. The number of applications for long-term fellowships topped 1000 this year, which means that more young scientists than ever turn to EMBO to finance their postgraduate training. Yet it also means that a larger number than ever before must be turned away. If we consider the impact that EMBO fellowships and courses and workshops have had over the decades on European science, an expansion of EMBO's efforts would obviously be desirable, even if simply to deliver more of the traditional products.

Yet EMBO excels in more ways than this: a central activity for 21 years has been the running of a highly successful major publication – The EMBO Journal, and more recently EMBO *reports*. EMBO *reports'* success is witnessed by its impact factor, which in 2003 increased to 7.7. Equally encouraging is the fact that since its publication was transferred to Nature Publishing Group, the number of visits to its website has risen four fold,

suggesting that it has not yet reached its plateau. The EMBO publications are characterised by their strong scientific integrity, thanks to the editors' efforts to ensure that scientific criteria form the overriding principles of evaluation. This bodes well for their success as long as all concerned consider serious reviewing an integral part of our common pursuit of science.

In recent years, boosted by profits from The EMBO Journal, EMBO has developed new initiatives: the Science & Society Programme, the Young Investigator Programme, the groundwork for a data base search and electronic publishing platform (E-BioSci), the World Programme and Restart Programme – aimed at reintegrating top scientists whose careers have paused due to family concerns. EMBO has also put effort into sectorial meetings, which are aimed at stimulating new developments and fields. Such meetings are often targeted geographically to promote science beyond the well-known centres of excellence.

Throughout EMBO's endeavours, programmes are run with a minimal amount of bureaucracy and expense. This is possible thanks to the willingness and competence of its scientific membership, which participates on committees,

boards, and in the organization of courses and workshops, and to the skill, commitment and enthusiasm of the staff in Heidelberg. Over the last 40 years, the EMBC and EMBO have had an enormous impact on science in Europe. Its mode of operation is to facilitate activities that scientists themselves propose, fostering the essentials of good research.

With support for the EMBC requiring an increasing commitment from the member countries, we must point to the remarkable 'scientific value per Euro' that characterizes EMBO activities. EMBO is an invaluable tool for feedback from the scientific community to the EU, as well as to individual governments. An example is the active participation EMBO has played in laying the groundwork for a European Research Council. Again, by identifying the needs of both scientists and society and ensuring efficient delivery, EMBO will undoubtedly continue to break new ground in scientific endeavours. On behalf of the entire EMBO Council, let me extend my thanks to the EMBO managers and staff, and to all of you who maintain its programmes.



[www.embo.org/embc/index.html](http://www.embo.org/embc/index.html)

### **The EMBC/EMBO: A Major Player in the European Research Area**

European science is experiencing one of its most exciting times in recent memory as the beginning of the new millennium is marked by a renewed interest in basic, fundamental research as a means to sustain a knowledge-based society. It all started at the Lisbon Summit in 2000, where the European Union (EU) heads of governments, concerned with the increasing gap between Europe and the competing economies in the United States and Japan, decided to take on the challenge by pledging to make Europe the most competitive economy in the world by the year 2010. This pledge was followed by a commitment at the Barcelona summit when it was agreed that spending on research and development (R&D), and innovation in the Union should be increased with the aim of reaching three percent of GDP by the same year.

The framework in which to carry out these actions was provided by Commissioner Philippe Busquin, who proposed the concept of the European Research Area (ERA), a vision that addressed the fragmentation of science in Europe by encouraging national member states to coordinate and integrate their activities in order to achieve the critical mass of



Julio Celis,  
President European  
Molecular Biology  
Conference (EMBC)

expertise and resources necessary to sustain, on a competitive basis, the conversion of knowledge into tangible economical and social benefits. Today, basic research in Europe is seriously underfunded, limiting our capacity to create new knowledge, to attract top scientists to the area, as well as to support the industry.

Currently, there is much excitement about the possibility of creating a European Research Council (ERC). This aims to be a new funding instrument to support high quality fundamental research in all sciences. It may become the cornerstone of the new knowledge-based society.

The EMBC, through EMBO and its extensive network of young and senior scientists, has played a central part in maintaining continuity in the ERC discussions and has been instrumental, together with

other organizations, in providing a much-needed forum for discussing science policy issues and for accommodating the opinions of the stakeholders.

To maintain a leading role in the ERA, the EMBC/EMBO need to ensure that their programmes, which cover a wide range of activities aimed at fostering the development of the young generation, are maintained at a proper level during the next nine years. In 2003 we had long and detailed discussions concerning funding for these activities, and thankfully these reached a satisfactory outcome in January 2004.

A handwritten signature in black ink, appearing to read 'J. J. J.', with a long, sweeping horizontal line extending to the right.





The EMBO communication office launched the new EMBC website in 2003.

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THE  
**EMBO**  
JOURNAL

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the European Molecular Biology Organization  
by IRL Press

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The first cover of  
the EMBO Journal  
published in 1982

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**timeline & brief history**

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**aims**

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**EMBO & EMBC actions in 2003**

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EMBO's aim is to promote biosciences throughout Europe.  
It has done this very successfully over a period of nearly 40 years.



In 1963 a group of leading European biologists met in Ravello, Italy, to found the European Molecular Biology Organization (EMBO). This followed on from two meetings in 1962 and 1963 at CERN in Geneva. As a result of these meetings, John Kendrew and Conrad Waddington prepared a document suggesting that this organization (EMBO) should have two aims: establishing a central international molecular biology laboratory, and designing a programme of network activities that would enhance the interactions of different laboratories throughout Europe. To pursue these goals, the newly established EMBO Council set up two committees: the Laboratory Committee, chaired by John Kendrew and the Federation Committee, chaired by Alfredo Buzzatti-Traverso. Ultimately, the work of the Laboratory Committee led to the establishment of the EMBO laboratory which later became the EMBL. The concepts drafted by the Federation Committee became the motor for the EMBO programme of fellowships, courses and workshops. At the same meeting, Max Perutz was elected as the first chairman of EMBO and John Kendrew became the first Secretary General.

On July 12, 1964, EMBO was incorporated officially as an association under Swiss law. To enable its activities to get

underway, EMBO applied for funding from the newly established Volkswagen Foundation, which was very generous in providing support for the networking activities that EMBO immediately initiated. The EMBO Council then worked to convince governments to provide more longterm support for EMBO's dual objectives. It quickly succeeded: in 1970, 14 countries established the European Molecular Biology Conference (EMBC). The EMBC adapted the activities that EMBO had initiated with the Volkswagen funding and these became known as the General Programme of the EMBC. They continue today and are expanding. The proposal from the EMBO Council to establish a European laboratory was also soon accepted by the EMBC. In 1974, a subset of ten member states formed a second intergovernmental body (EMBL) and the research institute subsequently came into existence with independent support.

Since 1970, the number of member states in the EMBC has continued to grow and today totals 24 countries. In recent years, new members have come increasingly from Eastern Europe. In this way, the EMBC is contributing to the integration of these countries into the European scientific community.

### EMBO

The European Molecular Biology Organization (EMBO) promotes biosciences in Europe. It does this through a number of activities, e.g. by organizing courses and workshops, providing fellowships for long-term and short-term visits to other laboratories and highlighting young independent researchers of high quality. It supports the scientific community through the publication of two scientific journals and by providing an electronic information platform. Furthermore, EMBO fosters an open dialogue between scientists and non-scientists. These activities encourage

the communication of scientific expertise and make Europe attractive as a location for scientific research.

Today, EMBO consists of well over one thousand members, who are well-known scientists from the EMBC member states, and almost 60 associated members worldwide. They include more than 30 Nobel Prize laureates. A staff of about 35 persons coordinates the organization's actions at the EMBO headquarters on the EMBL campus in Heidelberg

EMBO's activities fall into two categories: those that are part of the General



Programme funded by the EMBC, and those that have been initiated and developed by EMBO independently. Each of these is described in different sections of this report.

#### **EMBC**

24 member states (see right) fund most of EMBO's actions. Together, these countries form the inter-governmental organization called the European Molecular Biology Conference (EMBC).

This organization was established to build on and consolidate the work that EMBO initiated in the 1960s. It takes a pan-European view of research (expanded to include some neighbouring countries) and supports a very broad range of life sciences through the programmes that bear the EMBO name. The need to exchange expertise between countries becomes more and more evident with the increasing importance of the life sciences and their impact on our daily life. Scientific excellence is the basis for all EMBC supported activities.

Of particular significance for science in Europe today is the fact that the EMBC includes not only the EU countries, but also many of the accession countries and those with links to the EU that permit participation in the EU Framework Pro-

grammes. The relationship between EMBO and EMBC is very solid, and has worked effectively since 1970. The EMBC monitors the actions that EMBO performs on its behalf, but does not interfere in the execution of the programmes. This arrangement has worked well, since it is based on the trust that has been well established between the scientific communities represented by EMBO and the member states acting through the EMBC: [www.embo.org/embc/index.html](http://www.embo.org/embc/index.html)

#### **EMBL**

EMBL, the European Molecular Biology Laboratory, was established by EMBO as a special project of the EMBC and became an independent entity in 1974. It is also supported by a subset of the EMBC member states and provides further input into the overall goals of the organizations, i.e. by improving the quality of science based on molecular biology throughout Europe via high-quality laboratories. The EMBL is independent from the EMBC and EMBO, but all three act in a mutually supportive manner, both at a strategic and practical level. For full details about EMBL, please see the EMBL Annual Report or visit the institute's website at: [www.embl-heidelberg.de](http://www.embl-heidelberg.de).

#### **EMBC member states:**

The following states make up the European Molecular Biology Conference (EMBC):

Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, The Netherlands, Norway, Poland, Portugal, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.

Estonia and Luxembourg have been accepted as members of the EMBC and are currently in the process of formal ratification of the Intergovernmental EMBC agreement.

Special provision is also made for applications involving Cyprus.

### Chairs of the EMBO committees 2003

- **Denise Barlow**  
Science & Society Committee
- **Pascale Cossart**  
Course Committee
- **Cesare Montecucco**  
Membership &  
Publication Committee
- **Daniela Rhodes**  
Fellowship Committee
- **Jean-David Rochaix**  
Young Investigator  
Programme Committee
- **Glauco Tocchini-Valentini**  
Electronic Information  
Committee

### EMBO actions 2003

Elsewhere in this booklet, the specific actions taken by EMBO are reported on. In addition to those, the following events were of importance for the organization in 2003:

- The EMBO Council held a special meeting in April to discuss the future strategy of the organization. It also reviewed the programmes currently delivered by EMBO. In doing so, the Council put extra emphasis on the possibility of viewing EMBO as an academy in addition to a deliverer of the fellowships, courses, workshops and other programmes. In conclusion it was noted that the original Statutes of EMBO – which state, ‘The objects for which EMBO has been established are to promote and encourage the development of molecular biology in Europe and in neighbouring countries’ – were still a valid guide for EMBO’s activities today. The analysis of actions found that the current programmes were in keeping with the requirements of the organization. A shift in focus of some of the programmes was recommended, and was acted upon as of 2003.
- Early in 2003, with the informal signing of the agreement that Nature Publishing Group should be the host for

The EMBO Journal and EMBO *reports*, work was started on the preparation of the transfer of The EMBO Journal to NPG in January 2004. The transfer of EMBO *reports* took place in January 2003.

- The EMBO Council, at its April meeting, decided that each Council member would have a special responsibility for one of the sections of the EMBO activities in order to ensure a greater understanding at the Council level of the actions carried out by EMBO, and to act as a further support to that component of that programme.
  - The Chair, Paul Nurse, announced his decision to move to America. The EMBO Council elected Susan Gasser as Chair for the period July – December 2003. Brian Clark was elected Vice-Chair for that period. At the September meeting, Susan Gasser was re-elected as Chair for the EMBO Council for the period 2004 and Antonio Coutinho was elected Vice-Chair.
  - Since the time on the EMBO Council for Brian Clark, Herbert Jäckle and Peter van der Vliet ended in 2003, Tim Hunt, Kai Simons and Gunnar von Heijne were elected to the Council.
  - Sean Munro and Erik Boye were re-elected to the EMBO Council.



→ Following standard procedure, the EMBO Council proposed three scientists as potential members of the EMBL Scientific Advisory Committee (SAC). A final decision on the SAC members for the various sections rests with the EMBL Council.

→ Following the election of EMBO members, and considering the recommendations of the Membership and Publication Committee on scientists that should be co-opted, 35 scientists were made members of EMBO (for a list see page 66).

→ The membership election resulted in Roger Kornberg, Tony Pawson, Robert Roeder and Nobutaka Hirokawa joining the list of associate members (see page 72).

→ The Council adopted the budget for 2004, which was based on some presumptions of funding levels that would be received from the EMBC. In doing so, it strongly reiterated its support for the Fellowship and Courses and Workshop Programmes, which are funded by the EMBC, and looked forward to joint funding of other programmes with the EMBC.

→ Angela Krämer was selected as a new member of the Fellowship Committee. She replaced Costa Georgopoulos.

→ Andres Aguilera, Ari Helenius and Dino Moras were selected as new members of the Membership and Publication Committee. They replaced Carlos Gancedo, Robert Huber and Howard Riezman.

→ Pico Caroni, Batsheva Kerem and Peter Weisbeek were selected as new members of the Course Committee. They replaced Ton Bisseling, Martin Schwab and Yosef Yarden.

→ Lauri Aaltonen and Matthias Hentze were selected as new members of the Science & Society Committee. They replaced Niels Fill and Fotis Kafatos.

→ The Council received the reports from all of the Committees on their activities in 2003. It had requested a specific extra document from the Science & Society Committee, which focused on the strategy of that programme. This was provided at the September meeting. It forms the basis of the Science & Society Programme that is reported in this document.

→ The Council committed itself to further support of the European Life Sciences Forum (ELSF) with whom EMBO has worked very effectively in maintaining the discussion on the European Research Council (ERC) throughout 2003.



Bärbel Traut-Laur and Bernhard Huber are responsible for EMBO finances.



Jennifer Schulze-Eyßing (left) was responsible for all issues pertaining to EMBO members and is the administrator for the EMBO Council. When going on maternity leave Claudia Hagedorn took over her responsibilities.

→ EMBO was actively engaged in the meetings organised on the topic of the ERC in Paris, Venice and Dublin in 2003, and in the production of a report on the 'Life Scientist's View of the European Research Council' (see page 123).

→ The EMBO Council had agreed to proposals that there should be an annual EMBO Molecular Medicine meeting, arising from the success of the sectoral meeting on Molecular Medicine (see page 47). In doing so, it also accepted the concept that resources should be made available for follow-up actions on all of the sectoral meetings that are organised by EMBO.

→ The EMBO Council established a working party to discuss the option of starting an open-access journal. This followed a debate within the Membership and Publication Committee, which recommended that consideration should be given to such a move.

→ A draft of the principles that should guide a document on the revised Statutes and Rules of Procedure of EMBO was agreed upon. It was agreed to form a small working party who would work on the delivery of these revised documents in 2004.

→ The EMBO Council discussed the desirable characteristics of an EMBO

Research Awards Programme. These were communicated to the EMBC for further discussion.

→ A joint meeting of officers from EMBO and EMBC took place, at which topics of mutual interest were discussed.

→ To celebrate the 21<sup>st</sup> anniversary of the publication of the first issue of The EMBO Journal, a special meeting took place in Heidelberg, where discussions focussed on future directions for publications from EMBO. This meeting was also an opportunity to record the appreciation of the work that John Tooze and Iain Mattaj had done for the organization as executive editors of The EMBO Journal.

### EMBC actions in 2003

Two formal sessions of the EMBC were convened in June and November 2003. In addition, meetings of the EMBC Strategic Working Party were held on two occasions, while the Financial Advisory Group met once. Two special meetings were also arranged for the working party on the EMBO Research Award Programme.

The following points summarise the status and actions specific to the EMBC in 2003, which are not reported elsewhere in this document.

- The EMBC officers for 2003 were:
  - **Secretary General:**  
Frank Gannon
  - **President:**  
Julio Celis (Denmark)
  - **Vice Presidents:**  
Reinhard Lührmann (Germany),  
Vaclav Paces (Czech Republic)
  - **Chair of the Finance Advisory Group:**  
David Smith (United Kingdom)
  - **Vice Chair of the Finance Advisory Group:**  
Brita Beije (Sweden)
- The external auditors from Sweden approved the accounts of the EMBC and EMBO. It was decided that the external auditors for the period 2004 – 2006 would come from the Portuguese Tribunal de Contas.
- The Conference voted unanimously to have the Science & Society Programme included in the General Programme of the EMBC.
- The Conference voted unanimously, with one abstention, to support the establishment of a special project for EMBO Research Awards.
- Following the decision on the establishment of a special project for EMBO Research Awards, special meetings to discuss the *modus operandi* of the EMBO special project took place in Paris. The draft Agreement for the special project was presented to the Conference in November and will be discussed further in 2004.
- The Delegates unanimously approved the report on the execution of the budget for 2003.
- A new scale of contributions for the period 2004 – 2006 was agreed on.
- Permission was granted to use up to 800,000 Euro of the accumulated assets in 2003 to meet the financial challenge of the increased number of applications for long-term fellowships.
- A change in the mechanism for establishing the stipend rates for the long-term fellowships for 2004 was agreed. Henceforth, a new step increase would be introduced in the stipend rate between the first and the second year of an EMBO fellowship, irrespective of the age of the recipient.

- Discussions on a site agreement for the EMBC continued, the focus initially being on the views of legal experts as to whether or not the EMBC had a legal personality. A document addressing the consequences of the current pragmatic functioning arrangement, whereby the EMBC/EMBO is hosted in Germany under the EMBL site agreement, was presented and accepted by the Conference.
- The Conference voted unanimously to accept Estonia as a new member of the EMBC. When Estonia and Luxembourg formally ratify the EMBC Agreement, the total number of member states of the EMBC will rise to 26.
- The quality audit on the short-term fellowships was presented and positively received by the Conference (see page 24).
- The discussion on the indicative scheme for the EMBC for the period of 2004-2006 took place at both sessions of the EMBC, at the Strategic Working Party meeting and at the meeting of the Finance Advisory Group. The proposed indicative scheme was not accepted by the Delegates. As unanimity is required, it was decided to hold an extraordinary meeting of the EMBC in January 2003 and to work on an emergency budget in 2004 until the indicative scheme was agreed upon.
- Progress towards the integration of the pension payments into the EMBL pension fund was delayed until the EMBL pension fund is well established and functioning. In the interim, changes were made in the annual budget to ensure that the EMBC costs for pensions would be retained in a separate account from 2004 onward.

- An application from the Turkish Cypriot Molecular Biology Association for cooperating status with the EMBC was discussed. The proposal was not put to a vote, and the applicants were recommended to use the existing mechanisms that the EMBC had put in place for the Island of Cyprus at a previous meeting.
- The EMBC officers for 2004 were elected:

Secretary General

→ **Frank Gannon**

President

→ **Marja Makarow** (Finland)

Vice Presidents

→ **Reinhard Lührmann** (Germany)  
**Peter Weisbeek**  
(The Netherlands)



Gitta Bourke is the administrator for the EMBC.

The  
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Journal

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Journal

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1982

1-776

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**fellowship programme**

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**fellows' network**

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**courses & workshops programme**

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**young investigator programme**

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**electronic information programme**

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Administrator
- [fellowships@embo.org](mailto:fellowships@embo.org)

**facilitating exchange & mobility**

**Shortly after EMBO was founded in the 1960s, it established the Fellowship Programme in order to support mobility and scientific exchange in the Life Sciences. Since then thousands of scientists have benefited from the EMBO Fellowship Programme, which is supported entirely by the EMBC and remains a cornerstone of the organization today.**

**long-term fellowships** Since 2001, EMBO has observed a significant increase in applications for long-term fellowships. This trend continued in 2003, when our office received 1080 applications, corresponding to an increase of 27 percent compared to 2002. In fact, 1080 applications is the highest number of proposals that EMBO has ever received in its 40 years of existence. This year the Fellowship Committee selected 164 applications for funding. The majority of applicants moved between laboratories within the EMBC member states and 25 percent of the fellows went for postdoctoral training outside Europe, mainly to the USA and Canada. A very significant development in 2003 was the fact that EMBO attracted more than 70 percent more proposals

from outside the EMBC to join a laboratory within the member states, corresponding to 16 percent of the total proposals. A complete list of the successful applicants and statistics related to long-term fellowships is provided on page 76.

A selection committee of EMBO members ensures the quality of the fellows (see page 63). As a consequence of the constant increase in applications, the EMBO Council decided to expand the size of the Fellowship Committee in 2004. This will decrease the workload for the individual committee members. Another important aspect in the selection process is the interview of candidates by an EMBO member or young investigator with expertise in the field of research proposed. The interview reports are important for the decision finding by the Fellowship Committee and contribute to a fair and expert assessment of candidates.

Following feedback from EMBO fellows, leave for child care during the fellowship was discussed and approved by the Fellowship Committee, the EMBO Council and the EMBC. Fellows who take maternity or paternity leave during their term are entitled to apply for a prolongation of their fellowship for the time of their leave up to a maximum of three months.



**short-term fellowships** Short-term fellowships are particularly useful for initiating collaborations between laboratories and for the transfer of knowledge, techniques and practical research expertise within Europe. Two expert referees who are EMBO members or EMBO young investigators evaluate all short-term fellowship applications.

In 2003, the EMBC was provided with an audit report of the short-term fellowship scheme. In order to gain information regarding the impact of this scheme, we contacted former fellows who received their award in 1998 or 2001.

- The main results of the fellowship questionnaire were:
  - 83 percent of fellows were in early stages of their career
  - 88 percent are still in contact with their former hosts
  - 85 percent have ongoing collaborations
  - 57 percent visited the laboratory again with support from other sources
  - 31 percent visited their former hosts several times
  - 41 percent established a novel project in the home laboratory after returning from abroad

- 59 percent transferred a new technology back to their home laboratory
- 46 percent published a manuscript together with the host
- a further 16 percent expect a joint publication

The majority completed their project at home much faster after their visit abroad. This acceleration ranged from up to three months (11 percent), up to six months (32 percent) and more than six months (26 percent) and clearly indicates the benefit of the fellowship to the home laboratory.

In summary, the results of this survey demonstrate an impressive impact of a scheme that involves a relatively small investment per fellowship on the careers of scientists and on fostering fruitful collaborations between laboratories in EMBC member states.

In 2003, the scheme again attracted more applications than in the previous years and 138 short-term fellowships were awarded. Further details can be found on pp 92 .

**applications and awards of EMBO fellowships in 2003**

<b>short-term fellowships 2003</b>	
applications	289
awarded	138

<b>long-term fellowships 2003</b>	
applications	1080
awarded	164



Liselott Ahlgren, Agnès Visser-de Matteis (middle) and Jan Taplick take care of the EMBO fellowships.

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- **Liselott Ahlgren**  
Administrator
  
- [fellnet@embo.org](mailto:fellnet@embo.org)

**The fellows' network aims to foster the sense of community amongst the best young molecular biologists in Europe and to maintain contacts between EMBO and its fellows after they complete their EMBO long-term fellowship.**

Postdoctoral training represents a crucial stage in the career of a life scientist. The fellow works increasingly independently on projects based on his or her ideas, takes responsibility for teaching graduate students and starts to build up collaborations. Most EMBO fellows continue in science by establishing their own research group. In order to strengthen interactions between this group of researchers, EMBO organizes a fellows' meeting in Heidelberg each year. This tradition goes back to 1997 and the concept of the meeting has proved to be a great success. Three years after starting their research project, the fellows are invited to meet at EMBO in Heidelberg. The success of the fellows' meeting is also reflected by the fact that many of them also attend meetings in subsequent years. During the meetings, the fellows present their research results in talks or poster sessions and build up

friendships and collaborations. Each session of the meeting is chaired by an EMBO member who also gives a talk entitled 'My scientific biography and science'. In addition to the scientific presentations and special lectures, the meeting enables the fellows to discuss a variety of topics such as fellowship conditions, women in science, academia and industry or science and society. The feedback obtained from the fellows during the meeting or through e-mails of the fellows network is an important mechanism that enables EMBO to stay informed about the fellows' needs and their ideas regarding the future of the programme. Developments like the new stipend scheme, the extension of the fellowship for paternity and maternity leave or discussions regarding the need of a third year extension all have their roots in communications with EMBO fellows.



Participants of the  
EMBO fellows' meeting 2003

In 2003 the EMBO fellows' meeting again included a media workshop and took place on May 16–19. 70 fellows attended. The programme included:

#### special lectures

<b>Davor Solter,</b>	MPI, Freiburg, Germany 'Is cloning a biological or ethical problem?'
<b>Gerry Dawson,</b>	Merck, Harlow, United Kingdom 'Science in industry'
<b>Les Grivell,</b>	EMBO, Heidelberg, Germany 'E-BioSci: a discovery platform for the scientific literature'

#### scientific autobiographies from

<b>Frank Gannon</b>	EMBO, Heidelberg, Germany
<b>Angelika Noegel</b>	University of Cologne, Germany
<b>Nadia Rosenthal</b>	EMBL, Monterotondo, Italy
<b>William Rutherford</b>	DBCM, Gif-sur-Yvette, France
<b>Laszlo Tora</b>	IGBMC, Illkirch, France

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Programme Manager
- **Kathy Oswald**  
Administrator

[courses\\_workshops@embo.org](mailto:courses_workshops@embo.org)

**The Courses and Workshops Programme has proved itself to be an essential part of EMBO activities since its establishment in the 1960s. Through this programme, funds are provided annually for practical courses, lecture courses, workshops and conferences. The annual closing dates for applications are February 1 and August 1.**

**practical courses**

Up to 20 scientists participate in these courses that focus on cutting-edge techniques. Hence, the practical courses act as an early catalyst for transferring new methods to a broad number of European laboratories. Some 370 scientists from all over Europe attended EMBO's practical courses in 2003.

**lecture courses**

This second type of course is designed for approximately 100 participants and caters for students at the early stages of their careers. Each course comprises a series of lectures held over a period of several days. Lecture courses provide up-to-date information on developments in diverse topics and are given by experts in their field. Many of the lecture courses are held in peripheral and new member states to provide a stimulus to the local scientific community.

**workshops**

The workshops provide an opportunity for up to 120 scientists from multidisciplinary fields to engage in high-level discussions and exchange results. They attracted over 1900 participants in 2003

**conferences**

These larger-type workshops with over 120 participants are useful for establishing new contacts and help to develop collaborative networks throughout Europe. The conferences focus on topics of major importance to the scientific community in Europe.

Each year EMBO sponsors an average of twenty practical courses and three lecture courses along with twenty workshops and two conferences. In 2003, over 3600 participants and invited speakers attended these events, thus helping to broaden the network of interactions between scientists in the area of the biosciences.



Together with the EMBO fellowships, EMBO courses and workshops are core activities. They provide a good opportunity for (training) of young scientists and for the exchange of ideas.

**CONTACT**

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**The EMBO Young Investigator Programme supports scientists who are within the first three years of having established their own independent laboratories. Membership in the programme gives the selected scientists exposure through recognition by EMBO.**

Since its start in 2000 the EMBO Young Investigator Programme has grown very rapidly and is now recognized as a significant symbol of excellence for young researchers in Europe. In 2003 the programme received 163 applications from 20 European member states (see page 108). 21 of these were selected in October to become EMBO young investigators in 2004. For a publication of all the members of the programme please contact the EMBO Communication Office or visit [www.embo.org/publications/print.html](http://www.embo.org/publications/print.html)

The Howard Hughes Medical Institute (HHMI) joined EMBO in supporting young scientists from EMBC Central European member states in March 2002. The HHMI provides \$ 26.000 financial support p. a. to selected scientists in the Czech Republic, Hungary and Poland for the three year membership in the programme. Scientists from Estonia will be eligible from 2004. Arising from decisions in 2003 the programme now consists of four EMBO/HHMI young investigators and five EMBO/HHMI scientists. A meeting of Central European

scientists, including EMBO and HHMI associated scientists was organised in May 2003 in Warsaw. The aim of this meeting was to foster networking amongst these communities and to provide the opportunity to discuss and identify barriers that hinder the further development of science in Central Europe. A follow up meeting will be held in Prague in February 2004.

The activities within the programme have been expanded to include an annual symposium covering techniques or methods of general interest identified by the EMBO young investigators. The symposia put particular emphasis on the interactive discussion of the techniques and methods presented and are open to the scientific community. The topic of 2003 covered fluorescence microscopy and was attended by 210 scientists. The symposia are held in conjunction with the annual meeting of the young investigators in Heidelberg. The topic for the 2004 symposium is chemical biology. In March 2004 a laboratory management course was added to the programme's activities.



**The activities of the EMBO Young Investigator Programme include:**

- An annual meeting
- An associated symposium on a topic identified by the EMBO young investigators
- EMBO mentorship: an EMBO member acts as a mentor to the young investigator
- Financial support for networking among young investigators
- EMBO young investigator lectures at international meetings
- A laboratory management course (as of 2004)
- A one week course organized for the students of the EMBO young investigators
- A publication featuring the EMBO young investigators is widely distributed.



72 young investigators attended the second EMBO young investigator meeting in May 2003.

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Programme Manager

→ **Ole Hansen**  
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Les Grivell (seated),  
Anne Seller and  
Ole Hansen (right)  
are EMBO's contacts  
for the Electronic  
Information Programme.

**The Electronic Information Programme currently consists of the E-BioSci and ORIEL projects. E-BioSci is a web service that interconnects the scientific literature with other types of digital information. ORIEL acts as the research arm of E-BioSci by developing tools to manage complex, multimedia datasets. Both projects receive financial support from the European Commission.**

EMBO first developed the concept of E-BioSci in 1999 after a series of consultations and exchanges with interested parties in both Europe and the US. It is now perhaps best described as a web-based discovery tool, one that helps researchers to explore the scientific literature and to navigate across a range of different resources containing information related to that contained in any particular published article. It achieves this by implementation of novel technology (Collexis b.v.) that uses so-called conceptual

fingerprints to facilitate search, comparison and retrieval of (related clusters of) full text documents, even when these are distributed across geographically separate locations.

Public releases of prototype user interfaces were made in the course of 2003 and the most recent version can be accessed at [www.e-biosci.org](http://www.e-biosci.org). This version is intentionally limited in both scope and functionality, but it shows that the technology works. It also allows users to get a feel for how the platform differs from existing, more conventional bibliographic services and what it will ultimately be able to offer. Current key features include multi-lingual searching (currently English, French and German) and concept, rather than keyword-based searches of text. Gene symbols occurring in text are recognized as concepts and these can be used to navigate either to related articles or other sources of information. Besides being accessible through a standard web page, E-BioSci provides access through WSDL and SOAP protocols and this per-





mits the service and the information made accessible by it to be programmatically integrated into other networks of web-services or grid-services.

As the project moves into its third and final year of EC-support much still remains to be done. As in the previous two years, the ORIEL project will continue to provide solutions to many of the complex issues involved in interconnecting multiple data resources and including the methodologies for searching image databases. In parallel, the focus for the E-BioSci platform itself will be on extending gene symbol recognition, on scaling up both the amount of content available for searching and on increasing the number of resources to which links are made. E-BioSci partners in the UK, France, Germany and Spain will concentrate on the design of national nodes that integrate E-BioSci's technology into the spectrum of services that each offers to its own scientific community. User surveys will be carried out and the results of these will be instrumental in tailoring the service to user needs.

As in previous years, the 2003 joint E-BioSci/ORIEL annual workshop ([www.ebiosci.org/sept/varennaworkshop.html](http://www.ebiosci.org/sept/varennaworkshop.html)) brought together experts on areas related to both projects, including text-mining,

ontology development, management of large datasets and image retrieval. It generated lively discussions and identified new possibilities for longer-term collaborations. The next meeting will be held in Hinxton from October 12–15, 2004.

#### E-BioSci partners

EMBO (coordination)	
CINES	France
CSIC	Spain
DIMDI	Germany
EBI-EMBL	United Kingdom
EDINA	United Kingdom
ingenta plc	United Kingdom
INIST	France

#### ORIEL partners

EMBO (coordination)	
CINES	France
CNR-IBC	Italy
CNR-ITB	Italy
CSIC	Spain
EBI-EMBL	United Kingdom
ICGEB	Italy
IGH	France
ingenta plc	United Kingdom
INRIA	France
LIRMM	France
University of Montpellier	France
University of Oxford	United Kingdom

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# THE EMBO JOURNAL

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Volume 23 number 1 | January 14, 2004

'Walking on shadows' –  
Footprint taken by Ilan Davis in  
1992. This image was selected  
as the winner of The EMBO  
Journal 2004 Cover Contest.  
Ilan Davis is a Wellcome Trust  
Senior Research Fellow at the  
Wellcome Trust Centre for Cell  
Biology in Edinburgh, Scotland.

Published for the  
European Molecular Biology Organization  
by Nature Publishing Group

[www.embojournal.org](http://www.embojournal.org)

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**The EMBO Journal**

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**EMBO *reports***

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**science & society programme**

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**restart programme**

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**EMBO gold medal**

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**EMBO communication award**

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**lectures**

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**sectoral meetings**

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**world programme**

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**press & public relations**

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**life sciences mobility consultancy**

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**europaean life science forum**

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EMBO – a scientifically driven organization.

EMBO's activities fall into two categories: those that are part of the General Programme, supported by the EMBC, and those initiated and developed by EMBO as an independent organization. These additional activities are funded by the profits from 'The EMBO Journal'.



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**The EMBO Journal, which celebrated 21 years of existence in 2003, is a print and online publication dedicated to disseminating high quality peer-reviewed research in all areas of molecular biology. It remains one of the most highly cited journals, with a current impact factor of 10.698.**



Astrid Lunkes, Volker Wiersdorff, Valerie Ferrier and Conny Lee at one of their daily editors' meetings (from left to right)

The EMBO Journal experienced a year of transition in 2003. It marked the end of an era for the journal with the retirement of joint Executive Editor John Tooze, who founded the journal back in 1982. The process of closing the London editorial office, which had already started in 2002, continued throughout the year. From May onwards, all new manuscripts were diverted to the Heidelberg office, where Executive Editor Iain Mattaj continues to head the office. A celebration of John's dedication and years of service for the journal took

place in Heidelberg on December 2, 2003. This event also celebrated the 21<sup>st</sup> anniversary of The EMBO Journal, which brought together many former and current scientists associated with the journal for both a retrospective and a look forward for the journal.

Preparations were also made throughout the year for the change of publishers from Oxford University Press (OUP) to Nature Publishing Group (NPG), a move that was already initiated last year by EMBO reports. Several new design elements were introduced into the restructured NPG-hosted web site (visit [www.embojournal.org](http://www.embojournal.org)), as well as into the print layout and the cover, giving the journal an overall new look. What has not changed, however, is our independent stance as a society journal that is run by scientists for scientists. The well-established editorial procedures, including input from an active Advisory Editorial Board and a database of over 7000 referees, 50 percent of whom come from outside Europe, remain a cornerstone of The EMBO Journal's peer-review process.

The EMBO Journal also held a cover contest for the first issue of January 2004, to coincide with our change to NPG. Hundreds of possible cover images were submitted from participants around the world, and the image selected for first prize was from Ilan Davis of Edinburgh, Scotland (see page 34). Several runners-up were also chosen, and these images will continue to be placed on upcoming covers throughout 2004.

Several additional features are now available for authors who publish in The EMBO Journal. Each paper is now assigned to one or two of 18 different subject categories, which reflect the broad spectrum of papers published in the journal (page 73). This should help readers identify papers relevant to their main



Sara Quirk (left), Claire Johnstone (back), Sophia Katsogiannos (front) and Karen Thompson (right) are the editorial assistants for the 'EMBO Journal'.

areas of interest and serves to structure the online archive of the journal on the new web site. Another advantage for authors is that manuscripts are now published online before they appear in the printed issue (Advanced Online Publication), resulting in an even quicker dissemination of articles published here. In addition, authors who publish in The EMBO Journal now retain their own copyright, providing them with the right to self-archive. These benefits will be combined with an overall more extensive web presence and hence greater visibility for the articles published in The EMBO Journal. This is due to the fact that articles are published online on both NPG and High-wire platforms, where extensive functionality and features within both of these networks are available.

The broad scope of The EMBO Journal was illustrated when subject categories were assigned retrospectively to articles published in the journal over the past three years (pp 73). This exercise demonstrated that indeed The EMBO Journal publishes extensively in all areas of molecular biology. This diverse content, combined with an ever-increasing number of submissions (13 percent increase in 2003), ensures that the reputation of the journal will be maintained in the future.



John Tooze, founder of 'The EMBO Journal', retired in 2003.

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**EMBO reports is a print and online publication that is dedicated to providing sharply focused and rapidly published short papers and review articles in all areas of molecular biology, as well as commentaries on how progress in the life sciences is affecting society and vice versa.**

Launched in July 2000, *EMBO reports* was rapidly recognized as a unique and valuable contribution to scientific literature. Its impact factor increased to 7.698 in 2003 from a starting point of 6.046 the previous year, which reflects the high quality of the journal's content. Since the change of publisher to Nature Publishing Group in January 2003, articles in *EMBO reports* have benefited from being highlighted across the Nature subject areas and the increased visibility of the journal as a whole has led to a four-fold increase in the number of articles downloaded from the web site. A Science & Society special issue focusing on 'Infectious Diseases: challenges, threats and responsibilities' was published in June and is freely available online.

The major events of 2003 at *EMBO reports* were the staff changes that took place. Christine Blaumueller, the original Reviews Editor, was on maternity leave over the summer and the Assistant Editor, Susan Owens, took over her section. Christine returned in October and re-

placed the Scientific Reports Editor Marlies Otter-Nilsson, who moved to Sweden at the end of November. A new Assistant Editor, Caroline Hadley, joined the team in June. Holger Breithaupt remains the News Editor and coordinates the Science & Society section.

**what's in EMBO reports?**

*EMBO reports* complements its sister publication, The *EMBO Journal*, by providing a variety of short formats for coverage of topics related to molecular biology. Subdivided into three sections, the journal is designed to inform not only the molecular biologist, but all those interested in the dialogue about the relationship between science and society.

**The Science & Society** section features essays and articles that cover the realms beyond scientific research. The articles comment on and analyse how politics, the financial world and society affect the environment in which science is done as well as the consequences of biological research for society.

Article formats include:

- **Editorials**
  - **Correspondence**
  - **Book reviews**
  - **Viewpoints** – what the experts think
  - **Analysis** – the facts, from a journalistic perspective
  - **Interviews** – with those shaping science
- **Reviews** – concise updates on rapidly changing fields
  - **Concepts** – reviews with an eye to the future
  - **Meeting reports** – the latest developments presented at conferences
  - **Literature reports** – highlighting important papers

**The Reviews** section articles attempt to distill the vast amount of scientific information that is accumulating in the literature into concise chunks that can be easily digested. These articles are written by leading experts in the field and presented in four formats:

**The Scientific Reports** are sharply focused primary research papers that provide major new insights into some aspect of molecular biology. Rapid, high-quality peer review of these articles, by experts throughout the world, keeps a broad readership abreast of the latest developments.



The editorial team in Heidelberg (from left to right): Christine Blaumueller, Holger Breithaupt, Susan Owens, Caroline Hadley and Caroline Simpson

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Andrew Moore and Alessandra Bendiscioli run the Science & Society Programme.

### Supporting scientists and generating policy advice to promote the development and communication of modern biology, the Science & Society Programme aims to make science and scientists more accessible to society.

Increasingly supporting scientists in their communication with non-scientists, the Science & Society Programme continues to promote the public dialogue on the applications of molecular biology. 2003 saw the consolidation of the EMBO Award for Communication in the Life Sciences, and the dissemination of the Teachers Workshop model to locations throughout Europe. Our growing networks among non-scientists has also broadened the audiences of the annual EMBO/EMBL joint conference.

Attracting more non-scientists has, primarily, been a result of the activities promoting molecular biology education in schools. The second international teachers workshop in Heidelberg hosted 123 science teachers from 20 countries, and was oversubscribed by 60. This workshop marked the start of 'Continuing Education for European Biology Teachers (CEEET)', a project coordinated by EMBO, and funded by the European Union in 2003 and 2004 to the tune of 710,000 Euro.

One of a kind, the Heidelberg workshop has proven its attractiveness as a forum for exchange among motivated

educators across Europe, and its web pages now host a growing number of downloadable educational resources, both theoretical and practical. The workshop series continued in 2003 with national EMBO teachers workshops in Jerusalem, Hamburg, Madrid and Prague, and concludes in 2004 with similar events in Hinxton, Warsaw, Szeged and Copenhagen, all funded by the EU. A training programme and a resource centre at EMBL complete the project.

Still supporting communication via education, but this time at university level, EMBO was pleased to present the 2003 EMBO Award for Communication in the Life Sciences to Peter Csermely from the Semmelweis University, Hungary (see page 45).

Emphasising the important role played by practising scientists in communication and trust in molecular biology, EMBO members enthusiastically discussed these topics at the annual meeting in Killarney, Ireland. On that occasion, the EMBO Science Writing Prize was also awarded, this time to EMBO fellow Savvas Savvides for an entertaining piece



communicating the topic of current and re-emerging microbial pathogens in an anthropomorphic way.

Young scientists' skill in communicating with non-scientists, and especially the media, was again coached in a media workshop in which Pallab Ghosh and Geoff Watts (both prominent UK journalists) gave talks and interviewed unsuspecting members of the audience. EMBO is pleased to help any life scientist needing advice on communication, and has published advice on writing for non-scientists and communicating with the media on the science & society web pages. The latter continue to host an increasing amount of carefully chosen information and links. A complete face-lift of these pages in 2003 was complemented by the addition of searchable online databases of science and society links and links to outstanding educational resources.

The last major event of 2003 was the annual joint Science & Society Conference co-organized with the EMBL. EMBO took the lead in 2003 in the organization of 'Genetics, Determinism and Human Freedom', which analysed the technology, medical implications, use and abuse of genetic information in an increasingly information-driven society. Keynote spee-

ches from, among others, Jean Weissenbach, Hans Lehrach, Jean-Loius Mandel, Steven Rose and Jon Beckwith stimulated often profound discussions, many of which centred on the perceived 'exceptionality' of genetic information. Around half the audience of 280 were non-scientists, a mixture of teachers, school students, and interested professionals from the region.

The Science & Society Programme hopes to capitalise further on its growing and diversifying networks to ensure a greater dissemination of experience and products of its activities in 2004.



In 2003 EMBO expanded its teachers workshop model to a series across Europe.

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**3<sup>rd</sup> EMBO media workshop:**

→ [www.embo.org/projects/scisoc/mediaworkshops.html](http://www.embo.org/projects/scisoc/mediaworkshops.html)

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**2<sup>nd</sup> International practical workshop for biology teachers:**

→ [www.embo.org/projects/scisoc/download/teachers/twReport03screen.pdf](http://www.embo.org/projects/scisoc/download/teachers/twReport03screen.pdf)

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**Writing Prize 2003:**

→ [www.embo.org/projects/scisoc/writing.html](http://www.embo.org/projects/scisoc/writing.html)

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**Award for communication in the life sciences 2003:**

→ [www.embo.org/projects/scisoc/com\\_medal04.html](http://www.embo.org/projects/scisoc/com_medal04.html)

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**Members' special session on science & society:**

→ [www.embo.org/projects/scisoc/special\\_sessions.html](http://www.embo.org/projects/scisoc/special_sessions.html)

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**4<sup>th</sup> joint conference on science & society:**

→ [www.embo.org/projects/scisoc/download/s&s\\_abstracts03.pdf](http://www.embo.org/projects/scisoc/download/s&s_abstracts03.pdf)

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→ **Kim Piggott**  
Administrator

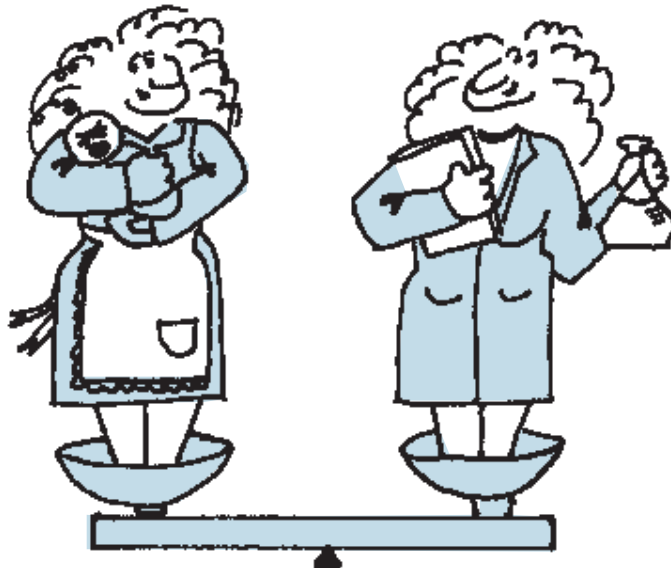
[restart@embo.org](mailto:restart@embo.org)

**The restart programme offers two year fellowships for scientists who have taken a break in their research careers for child care. The aim is to get these scientists back on track for a career in science. EMBO will continue to host meetings that address topics of interest for women in the life sciences.**

The EMBO restart fellowship helps relieve returning scientists from the pressures of having to apply to highly competitive fellowship schemes in competition with other scientists who have had no interruption in their careers. It helps the selected scientists to return/stay in science and prepares them for a career whether

it be in academia, education, administration or publishing. The fellowship is explicitly not restricted to women.

The EMBO Council launched the Restart Programme in 2002 as a result of the EMBO meeting 'The glass ceiling for women in the life sciences' held in June 2001.



The programme had its second deadline on August 15, 2003. In November two female scientists were awarded a two-year fellowship. Both fellows, after having taken a years' break for child care, will be restarting laboratory work during 2004. The awardees were not required to move to another country in order to be eligible.

EMBO is monitoring the participation of women in EMBO activities, namely in the membership, the selection committees, the fellowships and the courses and workshops (see pp. 110). The percentage

of women in the membership has increased to 13.4 percent and, this year for the first time, female long-term fellowship applicants have been more successful than their male counterparts.

To ensure committee members are aware of this important issue, each committee receives a report on female participation in their particular programme.



Gerlind Wallon (left) and Kim Piggott (right) look after the restart fellows and the young investigators.

#### EMBO restart fellowships 2003

Name	working in	topic
Belèn Illana	Spain	Gene therapy in Friedreich's ataxia
Pastural Elodie	France	Design of peptidomimetics



Anthony Hyman

### gold medal

**Anthony Hyman**, group leader and director at the Max Planck Institute of Molecular Cell Biology and Genetics, Dresden (Germany), was this year's winner of the EMBO Gold Medal. This prestigious prize was awarded by EMBO in recognition of Anthony Hyman's outstanding work on understanding the mechanisms and components involved in the division of living cells. Anthony Hyman received this award at the EMBO Members Meeting Frontiers of Molecular Biology in Killarney, Ireland, on October 17, 2003.

The EMBO Gold Medal highlights the quality of European molecular biology performed by young research scientists. It is awarded annually to a European scientist under 40 years of age. The medal has been awarded to many illustrious recipients in the past. It brings the high-quality work of young European scientists to the attention of a worldwide audience. In this way the EMBO Gold Medal acts as an indicator of standards achieved by European scientists. The awardee is also honoured as being a role model for scientists in Europe.

### EMBO gold medal winners

1986	<b>John Tooze</b> (Heidelberg, D)
1987	<b>Barbara Pearse</b> (Cambridge, UK)
1988	<b>Antonio Lanzavecchia</b> (Basel, CH)
1989	<b>Hugh Pelham</b> (Cambridge, UK)
1990	<b>Erwin Wagner</b> (Vienna, A)
1991	<b>Patrick Stragier</b> (Paris, F)
1992	<b>Carl-Henrik Heldin</b> (Uppsala, S)
1993	<b>Jim Smith</b> (London, UK)
1994	<b>Paolo Sassone-Corsi</b> (Strasbourg, F)
1995	<b>Richard Treisman</b> (London, UK)
1996	<b>Enrico Coen</b> (Norwich, UK)
1997	<b>Dirk Görlich</b> (Heidelberg, D)
1998	<b>Adriano Aguzzi</b> (Zürich, CH)
1999	<b>Konrad Basler</b> (Zürich, CH)
2000	<b>Christof Niehrs</b> (Heidelberg, D) and <b>Daniel St. Johnston</b> (Cambridge, UK)
2001	<b>Matthew Freeman</b> (Cambridge, UK)
2002	<b>Amanda Fisher</b> (London, UK)
2003	<b>Anthony Hyman</b> (Dresden, D)

**Launched in 2002, the EMBO Award for Communication in the Life Sciences again disproved the misconception that practising scientists only do science. 20 excellent entries were received in 2003 and EMBO's recognition goes to all participants.**

The winner of the award in 2003 was Professor **Peter Csermely**, from the Semmelweis University in Budapest, Hungary. The prize was awarded to Peter for his extensive efforts in interesting and engaging young people in science. In 1996 he established a programme in Hungary to help motivated and gifted high school students (between the ages of 14 and 20) to find mentors and introduce them to scientific research in Hungarian universities or institutes. The network started with 100 students, but by 2003 had grown to 1,260, and a further 3,800 working in student research teams. Besides giving free top-level research opportunities to talented students at a critical age, the programme has already promoted the establishment of two hundred scientific research clubs in high schools in Hungary, the Ukraine, Romania, Slovakia, Croatia and Serbia. Students also participate in exchange programmes with German, Israeli, Irish and American institutions. The

participating countries continue to grow in and outside Europe. For more information on the programme, please visit: [www.kutdiak.kee.hu/kd\\_eng/angol.html](http://www.kutdiak.kee.hu/kd_eng/angol.html)

The award of 5,000 Euro and the silver and gold medal were given to Peter Csermely during the EMBO/EMBL Conference on Science & Society on November 14, 2003 in Heidelberg. Beside the organization of this successful project, Peter Csermely is also a key figure in the communication of the Life Sciences in Hungary. He has written several reviews for national popular science magazines, receiving three prizes for the best papers published in these journals. He is also the author of a book on stress proteins, which is a favourite among students and teachers interested in molecular studies. He pursues a very active research career studying chaperones and heat-shock proteins (see: [www.chaperone.sote.hu](http://www.chaperone.sote.hu)).

**Closing date for applications in 2004 is August 31.**



EMBO's prize for outstanding communication in the life science is a handcrafted three-dimensional silver and gold medal.



Peter Csermely

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**EMBO initiated a scheme in 1996 to provide support for plenary lectures at important scientific meetings. The speakers chosen are EMBO members and the aim is to assist local organizers worldwide while, at the same time, making the participants increasingly aware of EMBO activities. Applications for plenary lectures are accepted at any time throughout the year.**

In 2003, EMBO provided funding for 14 lectures given in eight member states (see below). These lectures are also a good example of how EMBO cooperates within complementary programmes of

other organizations such as the Federation of European Biochemical Societies (FEBS) and the Federation of European Microbiological Societies (FEMS).

Ari Helenius	Structural biology of small DNA tumor viruses	I – Siena	April 22 – 27
Kari Alitalo	<i>In vivo</i> modeling of human malignancies	DK – Copenhagen	April 29
Susan Gasser	YIP mini-symposium on fluorescence microscopy	D – Heidelberg	May 12 – 13
Montserrat Pages	From the green revolution to the gene revolution	I – Bologna	May 28 – 31
Emiliana Borrelli	Advances in molecular mechanisms of neurological disorders	PL – Warsaw	June 1 – 4
Christopher Lamb	7 <sup>th</sup> International congress of plant molecular biology	E – Barcelona	June 23 – 28
Marino Zerial	New developments in membrane biology: Rafts, protein sorting and signal transduction	Republic of Georgia – Tbilisi	June 28 – July 3
Rino Rappuoli	1 <sup>st</sup> FEMS congress of European microbiologists	SL – Ljubljana	29 June – July 3
Philip Cohen	Special FEBS meeting	B – Brussels	July 3 – 8
Diter von Wettstein	XII International congress on genes, gene families and isozymes	D – Berlin	July 18 – 24
Gerard Evan	The cell biology of cancer	UK – Oxford	September 14 – 17
Francesco Blasi	Molecular biology of human disease	DK – Fyn	October 6 – 8
Nicole M Le Douarin	5 <sup>th</sup> Convegno FISV	I – Rimini	October 10 – 13
Venki Ramakrishnan	A life of encounters: recognition in biology	D – Heidelberg	November 20 – 22

**EMBO sectoral meetings aim to strengthen the contact between the organization and its members in a specific area of molecular biology, to identify targets for interdisciplinarity and to define future directions in a particular sector.**

In 2003 the aim of the sectoral meeting was to define EMBO's role in a rapidly expanding area of research: molecular medicine. Members who participated in the immunology sectorial 2002 will remember the discussions regarding how 'molecular' EMBO should be and that excellent scientists might be excluded who work in more medical or physiological orientated areas. That those discussions were very timely was reflected by the fact that several members approached EMBO in 2002 to draw attention to the rapid developments in the area of molecular medicine. The EMBO sectoral meeting on molecular medicine was held in Cavtat, Croatia on June 21–22, with Kresimir Pavelic from the Rudjer Boskovic Institute as local organizer. The meeting was mostly attended by EMBO members, but also by clinicians with an interest in molecular biology.

In addition to the excellent scientific talks there were sessions on EMBO membership and molecular medicine, the various EMBO programmes with regard to training of clinical scientists, the journals of EMBO and molecular medicine and future plans of EMBO in this area. Arising

from these discussions during the meeting it was evident that EMBO should engage itself in bringing clinicians and research scientists together. It was proposed that EMBO would organize disease-oriented meetings as follow up of this sectoral meeting. The EMBO Council agreed that such targeted meetings would be very beneficial for all parties concerned and the first meeting of this kind will be organized in 2004.

<b>Alan Ashworth</b>	Institute of Cancer Research, London, UK
<b>Matt Cotton</b>	Axxima Pharmaceuticals AG, Munich, Germany
<b>Manfred Dietel</b>	Charité, Berlin, Germany
<b>Wilhelm Krek</b>	Swiss Federal Institute of Technology, Zurich, Switzerland
<b>Andreas Kulozik</b>	University of Heidelberg, Germany
<b>Saverio Minucci</b>	European Institute of Oncology, Milan, Italy
<b>Philippe Sansonetti</b>	Pasteur Institute, Paris, France
<b>Melitta Schachner</b>	University of Hamburg, Germany
<b>Hermona Soreq</b>	Hebrew University, Jerusalem, Israel
<b>Daniela Toniolo</b>	San Raffaele Scientific Institute, Milan, Italy
<b>Inder Verma</b>	Salk Institute, La Jolla, USA

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**These speakers participated in the meeting**

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**Since its formal inauguration in 2001, the EMBO World Programme has been steadily developing the various components that it offers, i.e. courses, workshops, lectures, fellowships and exchange visits. The programme aims to internationalise European science by opening a gateway of possibilities for the exchange of information and opportunities for collaboration with non-European countries.**

In recent years, the globalisation of interactions has drawn EMBO into an increased involvement in activities outside of Europe. A major catalyst was the EC-funded EBNIC project with China that started in 1998. In the years that followed, EMBO successfully established contacts between scientists in both communities through the organization and cosponsorship of standard activities such as workshops, lectures and expert visits. This led to the decision in September 2000 to establish a World Programme, which has since been sponsoring fellowships, courses, workshops and plenary lectures in developing countries and emerging economies worldwide. During the past year, the EMBO World Programme has funded events in South and Central America, Africa and Asia with the aim of developing contact and promoting cooperation between European scientists and those beyond its borders (see appendix pp. 116 for full details).

**world programme fellowships**

The year 2002 saw the introduction of the EMBO World Programme fellowship scheme, which offers funding for a period of six to nine months. Preference is given to scientists from developing countries and emerging economies to help them establish and build collaboration projects with their European partners. The recipients of the 2003 fellowships are listed in the table page 116.

**cooperation agreement signed  
screening service**

One of the consequences of the 2002 agreement between EMBO and the Chinese Academy of Sciences is that EMBO was enabled to offer a screening service for Chinese postdoctoral applicants who wish to spend a period of time in a European laboratory. The need for this type of service has become increasingly evident over the past few years and the EMBO World Programme has now put the mech-



anisms in place to allow this service to operate for China. In 2004 it is hoped to expand this service to other countries where the need is identified.

### **international networking**

Clearly, the growth and success of the World Programme depends on the networking created between EMBO and other scientific communities throughout the world. In 2003, EMBO has continued to be engaged in discussions with a group of scientists from the Asia Pacific region (A-IMBN) and from South America.

To further expand its contacts, the World Programme together with the Human Frontier Science Program (HFSP), the Third World Academy of Sciences (TWAS) and the Wellcome Trust, organized a workshop on 'Promoting Life Sciences in Developing Countries' in November 2003, which was held in Trieste, Italy. Representatives of several international funding agencies were invited to come together to discuss the situation with regard to basic research in third world countries. As a stimulus for discussion a background report on 'Research and Education in Resource-Constrained Countries' was prepared at EMBO. This provides data and information on re-

search accomplishments, the level of educational opportunities and policy trends for life sciences research in a selection of countries across Africa, Latin America, Asia, Eastern Europe and the Middle East. The report can be downloaded at [www.embo.org/print/index.html](http://www.embo.org/print/index.html). A final report on the outcome of this meeting is presently in preparation.

The overall effect of the World Programme so far has been to establish recognition of EMBO as a partner worldwide, thereby favouring Europe as a target for international scientific collaboration and training while promoting standards and programmes that have made a positive impact on Europe.



Mary Gannon (left) and Kathy Oswald (right) organize the world programme and the courses and workshops programme. Alexandra Moreno-Borchart (middle) produced the report on 'Research and Education in Resource-Constrained Countries'.

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**The communication office serves as an information resource for journalists, scientists and other parties interested in EMBO's activities.**

**press conferences & press releases**

In May 2003 EMBO's Science and Society Programme held its second successful international teachers' workshop. 123 school teachers from 20 countries across Europe and beyond attended. Journalists were invited to attend the workshop and to participate in a press meeting. A question and answer session took place and journalists were given flyers listing dates and places for the next eight workshops planned in Europe and Israel for 2003 and 2004. In cooperation with a professional film crew, the PR office produced a short film of the workshop and events, now available in digital format (DVD).

In November 2003 a press lunch accompanying the EMBO/EMBL Science and Society Conference on Genetics, Determinism and Human Freedom was held. Invited speakers to the press lunch included Ludger Honnefelder, Head of the Department of Biomedical Ethics, University of Bonn (Germany), Hans Lehrach, Director of the Max Planck Institute for Molecular Genetics, Berlin (Germany), Andrew Moore, EMBO Science and Society Programme Manager, Heidelberg (Germany) and Steven Rose, Director of

Brain and Behaviour Research Group, The Open University (England). Special Guest speaker was Hungarian Scientist Peter Csermely, who received the 2003 EMBO award for Communication in the Life Sciences. Further press releases (17) distributed internationally covered, amongst others, the steps towards the establishment of a European Research Council (ERC) to support high quality research in Europe, an agreement between EMBO and the Chinese Academy of Sciences (CAS) to enhance collaboration and the signing of a funding agreement with the European Commission to coordinate the CEEBT project (Continuing Education for European Biology Teachers). The winners of the EMBO Gold Medal (Anthony Hyman) and Award for Communication in the Life Sciences (Peter Csermely) were announced, as was the initiation for the launching of a future EMBO Research Award Programme.

**communication with the general public**

In June EMBO participated in the 25<sup>th</sup> anniversary celebrations of EMBL. An open day was held with more than 1000 visi-

tors attending. EMBO had a stand in the science café and hosted scientific games for the public, staff answered a myriad of questions regarding our programmes and activities and visitors were given prizes and hand outs to take home with them.

EMBO also hosted an exhibitor booth at the ELSO 2003 conference held in Dresden in September. All of EMBO's programme materials were available to interested parties from the 2000 delegates from 41 countries who gathered in the Kulturpalast to hear the latest news from the world of molecular life sciences.

### **informing scientists, members & politicians**

The first booklet on the EMBO Young Investigators was published in March. It comprised a summary of their CV and outlined their research activities. 103 young investigators were members of the programme in 2003.

EMBO together with ELSF published a booklet on careers in the life sciences. The booklet gives recommendations to scientists in training, their supervisors, institutions, funding organizations and governments on how to improve career perspectives for life scientists.

A planning document on the future of the EMBC/EMBO – *'Building on a record*

*of achievement'* was published. This booklet addresses the future of life sciences in Europe as viewed from the perspective of the European Molecular Biology Conference (EMBC), and arose from intensive discussions with both the EMBC and EMBO.

A publication featuring all our new members for 2002 was made available for the annual meeting, Frontiers of Molecular Biology, held this year in Killarney, Ireland. Early in 2004 a new concept of a booklet highlighting the new 2003 members was published.

This year EMBO cooperated with a new publication called 'European Biotechnology News'. The communication office provides them with recent EMBO news articles that are published in their journal. They distribute this publication free of charge to the EMBO membership. This will be continued in 2004.

We continued with our regular newsletter service informing on past and future happenings, printed the EMBO yearly calendar and listing of courses and workshops. Some of our printed material can be downloaded from the EMBO website that was redesigned in 2003 to enable quicker, more direct access to all of our programmes.



From left to right: Uta Mackensen, Ellen Peerenboom and Lynne Turnbull

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**The Life Sciences Mobility Consultancy (LSMC) online service, launched by the European Molecular Biology Organization in January 2004, is designed to help research scientists achieve greater mobility to and within Europe. It offers searchable information on grants and workshops, hosts a job and a scientific partner search database and provides useful links to other career resources in the life sciences.**



Sabine Rehberger-Schneider (right) and Laura Cortesi (left) build up the online Life Sciences Mobility Consultancy.

The Life Sciences Mobility Consultancy service helps researchers in the life sciences to easily find funding opportunities, training programmes and open positions. It is open to all scientists, irrespective of their location and organizational affiliation. The service is designed to give researchers worldwide fast access to information on mobility within Europe. Its scientific partner search database invites all interested scientists to post their re-

search profile. The purpose behind this approach is to help build up contacts between scientists and make the scientific landscape in Europe open to all interested parties. The participation and contribution of users is highly welcome. Submissions of experience reports on mobility are collected under a section called 'Submit your story' and will be presented under each country, respectively. Most importantly, a collection of links to other relevant web sites are presented such as other jobs and grants' databases, life science organizations etc. There will be an opportunity for users to rate the links and other information with polls provided.

This resource is designed to encourage research scientists to achieve greater mobility within Europe. Besides extensive background information concerning the mobility of researchers within Europe on the web, verbal and written advice on finding transnational funding sources are also provided. After the web site launch more than 400 page hits per day were



counted. The challenge of the project is to continue to deliver recent data and new initiatives to the users.

The LSMC is a complementary project to the EC pan-European Researcher's Mo-

bility Portal. The European Commission, DG Research, supports this project financially within the Quality of Life and Management of Living Resources Programme under Framework Programme 5.

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**Established in 2000 the European Life Sciences Forum (ELSF) is a platform comprising 12 members and associated members, organizations representative or supportive of the life sciences, biotechnology and biomedical research communities in Europe. The mission of the Forum is to increase the visibility and impact of these communities in the public and policy-making arenas, to advance research and to improve scientists' positions in European society.**

In 2003 ELSF has been primarily engaged in and became a major actor of the debate on the creation of a European Research Council (ERC) to promote and support basic research in all scientific disciplines on a European level. In conjunction with its founders and major sponsors, EMBO, FEBS and EMBL, ELSF organized several meetings on the topic. Some 250 life scientists and other stakeholders, including Research Commissioner Philippe Busquin and three Nobel Prize Laureates from EMBO's membership, attended the first meeting hosted by UNESCO in Paris in February 2003. This event demonstrated the support of the life sciences community for an ERC and established some of the principles that should govern its actions. The second meeting, hosted in Venice by the UNESCO Regional Bureau for Science in Europe, convened 70 prominent life scientists and stakeholders to discuss practical details regarding the organization of an ERC: the grants, the support for infrastructures and the deliv-

ery mechanisms. These meetings lead to the publication of an ELSF position paper entitled 'European Research Council – the life scientist's view', (see: [www.elsf.org/elsfbrochures/elsferc03.pdf](http://www.elsf.org/elsfbrochures/elsferc03.pdf)).

Realizing that the European scientific community should speak with one voice on the subject in order to increase its impact ELSF organized, in conjunction with Euroscience, an interdisciplinary meeting on the ERC hosted by the Royal Irish Academy (Dublin) in October. This event gathered together representatives from scientific organizations and learned societies from all disciplines as well as other stakeholders. During the meeting, Achilleas Mitsos, Director General with the EC DG Research, announced that the EC was supporting the idea of an instrument for basic research and, for this purpose, would request a specific credit line from the EU budget.

One of major achievements of the Dublin meeting was the establishment, for the first time in Europe, of a platform

where all scientific disciplines would discuss policy and programmes. It was subsequently decided to formalize this structure under the name 'Initiative for Sciences in Europe' (ISE). A working group composed of representatives from ELSF and its members, Euroscience, the European Science Foundation, the Group of European Nobel Prize Laureates and the European University Association organized a meeting that took place in the premises of the European Parliament in Brussels on February 23 – 24, 2004. This meeting had the double objective of discussing the reasons to establish an ERC and the views and expectations of the scientific community, notably with respect to the organizational issues (deliv-

ery of the programme) and the level of funding required, and to inform the Members of the European Parliament, who have a co-decision power on the establishment of an ERC. The ISE working group will also draft a position paper on these issues, which will be an essential contribution, as it will reflect the opinion of the customers of the ERC, the scientists.

Things are thus moving extremely rapidly, and the involvement and contribution of ELSF and its members has proven essential in the debate on the ERC. In parallel to its engagement towards the creation of an ERC, ELSF has worked all year to strengthen its ties with the life sciences community and other stakeholders of the science policy scene in Europe.



Luc van Dyck is the Executive Coordinator of the European Life Sciences Forum (ELSF).



About 300 participants discussed the advantages of an ERC at the meeting hosted by the UNESCO in Paris, February 2003.



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2003	Margaret Buckingham	(F-Paris)
1998, 2001	Brian Clark (Vice-Chair: June–December)	(DK-Aarhus)
2000, 2002	Antonio Coutinho	(P-Oeiras)
2000, 2003	Susan Gasser (Vice Chair: January – June) (Chair: July – December)	(CH-Geneva)
2002	Ingrid Grummt	(D-Heidelberg)
1998, 2001	Herbert Jäckle	(D-Goettingen)
2002	Carlos Martinez-Alonso	(E-Madrid)
1999, 2002	Cesare Montecucco	(I-Padova)
2001	Sean Munro	(UK-Cambridge)
2000, 2003	Paul Nurse (Chair: January – June)	(USA-New York)
1999, 2002	André Sentenac	(F-Gif-sur Yvette)
2000, 2003	Giora Simchen	(IL-Jerusalem)
1998, 2001	Peter Van der Vliet	(NL-Utrecht)
2003	Maciej Zylicz	(PL-Warsaw)

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Denise Barlow	(Chair of Science & Society Committee)
Jean-David Rochaix	(Chair of EMBO Young Investigator Programme Committee)
Glauco Tocchini-Valentini	(Chair of Electronic Information Programme Committee)



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2001 Francisco Baralle  
2001 Ernesto Carafoli  
2001 Jean-Pierre Kraehenbuhl  
2001 Montserrat Pages  
2001 Claudio Scazzocchio  
2001 Günther Schütz  
2001 David Sherratt  
2001 Irma Thesleff  
2001 Daniela Toniolo

**courses committee**

2003 Pico Caroni  
2000 Pascale Cossart (Chair)  
2002 Jonathan Howard  
2002 Philip Ingham  
2003 Batsheva Kerem  
2000 Juan Modelell  
2000 Kirsten Sandvig  
2001 Anna Tramontano  
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2003 Peter Weisbeek

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2001 August Boeck  
2002 John Diffley  
2000 Thomas Edlund  
2000 Crisanto Gutierrez  
2002 Jan Hoeijmakers  
2003 Angela Krämer  
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2000 Daniela Rhodes (Chair)  
2001 Varda Rotter

**electronic information committee**

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2000 Julio Celis  
2000 Sigrun Eckelmann  
2002 Gerard Giroud  
2000 Jacques Haiech  
2000 Carlos Martinez-Alonso  
2000 Marianne Minkowski  
2002 Annette Thomas  
2000 Glauco Tocchini-Valentini (Chair)  
2000 Alicia Wise

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2001 Doreen Cantrell  
2003 S. Dusko Ehrlich  
2003 Jiri Forejt  
2000 Yoram Groner  
2002 Regine Kahmann  
2000 Iain Mattaj  
2003 Gines Morata  
2000 Jean-David Rochaix (Chair)  
2000 Gunnar von Heijne

**science and society committee**

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1999 Denise Barlow (Chair)  
2000 Axel Brennicke  
2001 Victor de Lorenzo  
2001 Heidi Diggelman  
2001 Matthew Freeman  
2003 Matthias Hentze  
2001 Mary Osborn  
2002 Roberto Sitia  
2002 Mary Weiss

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2002 Ruth Arnon  
1999 Joel Bockaert  
1999 Raymond Dixon  
1999 Frank Grosveld  
2003 Ari Helenius  
2002 Maria Leptin  
1999 Cesare Montecucco (Chair)  
2003 Dino Moras  
2002 Hans Wolf-Watz

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<b>council members year(s) elected</b>	<b>name</b>	<b>country &amp; city</b>
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2003	Margaret Buckingham	(F-Paris)
2000, 2002	Antonio Coutinho (Vice-Chair)	(P-Oeiras)
2000, 2003	Susan Gasser (Chair)	(CH-Geneva)
2002	Ingrid Grummt	(D-Heidelberg)
2004	Tim Hunt	(UK-London)
2002	Carlos Martinez-Alonso	(E-Madrid)
1999, 2002	Cesare Montecucco	(I-Padova)
2001, 2004	Sean Munro	(UK-Cambridge)
2000, 2003	Paul Nurse	(USA-New York)
1999, 2002	André Sentenac	(F-Gif-sur Yvette)
2000, 2003	Giora Simchen	(IL-Jerusalem)
2004	Kai Simons	(D-Dresden)
2004	Gunnar von Heijne	(S-Stockholm)
2003	Maciej Zyllicz	(PL-Warsaw)

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2001	Günther Schütz
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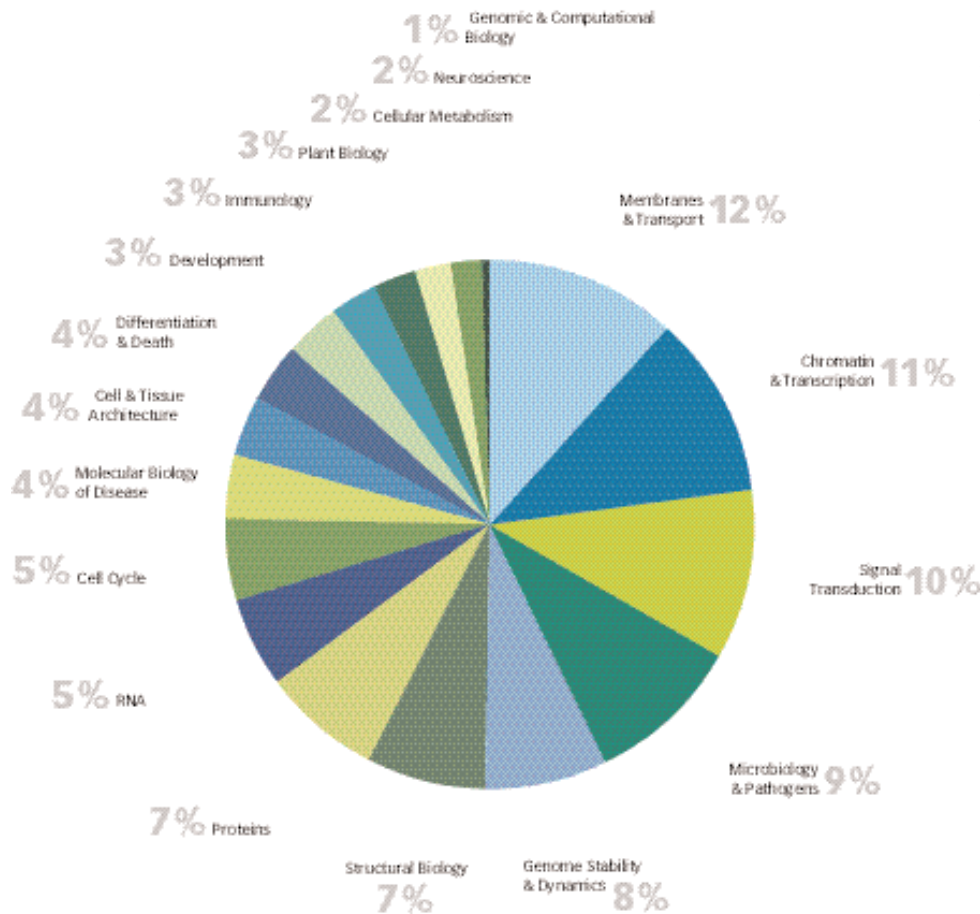


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From 2004 the EMBO Journal content will be structured by 18 Subject Categories. The diagram shows an overview of the 1925 articles published in the years 2001–2003. Up to two Subject Categories per article were retrospectively assigned by the editors.

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Gennaro Ciliberto  
Pascale Cossart  
Pietro V. De Camilli

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Giulio Draetta  
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Jean Gruenberg  
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**I** Philip W. Ingham

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Tomas Lindahl  
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Edwin Milgrom  
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Walter Neupert

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Michael J. Owen

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Jean-David Rochaix  
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James C. Smith  
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**T** David Tollervey  
Richard Treisman

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**W** Stephen C. West  
Alfred Wittinghofer  
Dieter H. Wolf  
Hans Wolf-Watz

---

**Y** Mitsuhiro Yanagida

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**Z** Marino Zerial  
Maciej Zylicz

country	name	nationality	guest laboratory	previous laboratory	research interest
<b>Austria</b>	Fürthauer, Maximilian	<i>Austrian</i>	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	IGBMC, Illkirch, France	TGFbeta signalling and embryonic cell proliferation: A cell biological analysis
	Köprunner, Marion	<i>Austrian</i>	MPI of Developmental Biology, Tübingen, Germany	Institute for Molecular Biology, Salzburg, Austria	Development and function of the enteric nervous system (ENS) in the zebrafish embryo
	Meinhart, Anton	<i>Austrian</i>	University of Munich, Germany	Ludwig Maximilian University, Munich, Germany	Structural studies of the pre-mRNA 3'-end processing factors Ssu72 and CF I and their coupling to RNA polymerase II
	Waldsich, Christina	<i>Austrian</i>	Yale University, New Haven, USA	University of Vienna, Austria	Structure and folding of Group II introns
<b>Belgium</b>	Janssens, Sophie	<i>Belgian</i>	University of Lausanne, Switzerland	Ghent University, Belgium	The role of MyD88s, an LPS-inducible splice variant of MyD88, in the development of endotoxin tolerance
	Nguyen, Laurent	<i>Belgian</i>	MRC, London, UK	University of Liège, Belgium	The role of proneural genes in the regulation of progenitor cell divisions in the cerebral cortex
<b>Czech Republic</b>	Strnad, Pavel	<i>Czech</i>	Stanford University, USA	Johannes Gutenberg University, Mainz, Germany	Identification of keratin mutations in patients with liver disease and determining the role of such mutations in predisposition to liver disease
	Svoboda, Petr	<i>Czech</i>	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	University of Pennsylvania, Philadelphia, USA	Analysis of association between RNAi and transcriptional control in mouse oocytes and early embryos
<b>Denmark</b>	Møller-Jensen, Jakob	<i>Danish</i>	MRC, Cambridge, UK	University of Southern Denmark, Odense, Denmark	Molecular motors in bacterial DNA segregation
	Wulff, Brande	<i>Danish</i>	CSIC, Valencia, Spain	John Innes Centre, Norwich, UK	LRA5 and its role in non-host resistance of plants
<b>Finland</b>	Kotaja, Noora	<i>Finnish</i>	IGBMC, Illkirch, France	University of Helsinki, Finland	Regulation of kinesin – mediated modulation of CREM-dependent transcription in male germ cells
	Mäkinen, Taija	<i>Finnish</i>	MPI of Neurobiology, Martinsried, Germany	University of Helsinki, Finland	Dissecting ephrinB2 signalling in vascular and neuronal development
<b>France</b>	Appay, Victor	<i>French</i>	INSERM, Paris, France	Weatherall Institute of Molecular Medicine, Oxford, UK	Study of immunological determinants of immunodeficiency onset in HIV infection and human ageing



name	nationality	guest laboratory	previous laboratory	research interest	country
Bouzioukh, Farima	<i>French</i>	MPI of Neurobiology, Martinsried, Germany	ESBS, Paris, France	Ephrins and synaptic plasticity	
Bres-Florentin, Vanessa	<i>French</i>	The Salk Institute, La Jolla, USA	University of Montpellier, France	Role of SKIP in coupling HIV-1 elongation to splicing	
Chamaillard, Mathias	<i>French</i>	University of Michigan, Ann Arbor, USA	INSERM, Paris, France	Regulation of immune response to enteric bacteria by NOD1 and NOD2	
Clapier, Cedric	<i>French</i>	EMBL, Grenoble, France	Plymouth, State University, USA	Crystallization and X-ray structure determination of the chromatin remodelling factor ISWI bound to its nucleosomal substrate	
Crambert, Gilles	<i>French</i>	Yale University, New Haven, USA	University of Lausanne, Switzerland	Identification and characterization of tetraspan proteins that associate with renal transporters	
Delon, Isabelle	<i>French</i>	Cancer Research UK, Cambridge, UK	Center of Developmental Biology, Toulouse, France	How does signalling through phosphorylation regulate integrin function during development of <i>Drosophila</i> ?	
Dez, Christophe	<i>French</i>	University of Edinburgh, UK	Institute of Cell Biology and Genetics, Toulouse, France	Identification of factors that target aberrant pre-mRNAs for rapid degradation in the nucleus	
Gaudier, Martin	<i>French</i>	Cancer Research UK, South Mimms, UK	CNRS, Gif sur Yvette, France	Structural studies of the human DNA double-strand-break repair pathway	
Hutin, Claire	<i>French</i>	University of Geneva, Switzerland	CEA, St Paul lez Durance, France	Role of state transition in the dynamics of <i>Chlamydomonas</i> thylakoid membrane complexes	
Legube, Gaelle	<i>French</i>	EMBL, Heidelberg, Germany	CNRS, Toulouse, France	Genome-wide analysis of gene expression pattern and dosage compensation complex regulation in <i>Drosophila</i>	
Leulier, François	<i>French</i>	Institute of Cancer Research, London, UK	CNRS, Gif sur Yvette, France	Regulation of apoptosis: The role of caspase activation and inhibition in <i>Drosophila</i> development	
Martinez, Laurent	<i>French</i>	MRC, Cambridge, UK	Columbia University, New York, USA	Intracellular networks processing the mitochondrial ATP synthase toward the cell surface	
Mateo, Véronique	<i>French</i>	INSERM, Paris, France	Montreal University, Canada	Identification of new genes implicated in ALPS: Correlating affected AICD signalling pathways with clinical penetrance	
Maurange, Cedric	<i>French</i>	MRC, London, UK	ZMBH, Heidelberg, Germany	A mosaic screen for genes controlling neural stem cell proliferation in the developing adult central nervous system of <i>Drosophila</i>	
Maure, Jean-François	<i>French</i>	Wellcome Trust, Dundee, UK	IBGC, Bordeaux, France	Mechanism involved in centromere cohesion recruitment and enrichment	

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	Merabet, Samir	<i>French</i>	Biocenter, Basel, Switzerland	Marseille University, France	Evolutionary and molecular analyses of the Hox hexapeptide for homeotic properties
	Nizak, Clement	<i>French</i>	Rockefeller University, New York, USA	Curie Institute, Paris, France	Robustness of developmental precision and self/non-self recognition in <i>Dictyostelium</i>
	Orgogozo, Virginie	<i>French</i>	Princeton University, USA	ENS, Paris, France	Evolution of the <i>Drosophila</i> maxillary palp
	Possoz, Christophe	<i>French</i>	Oxford University, Oxford, UK	CNRS, Paris, France	The relationships between chromosome replication, chromosome segregation and cell division in <i>Escherichia coli</i>
	Rolland-Lagan, Anne-Gaelle	<i>French</i>	University of Calgary, Canada	John Innes Centre, Norwich, UK	Pattern formation interacting with growth: Modelling a growing leaf and its venation
	Sachon, Emmanuelle	<i>French</i>	University of Southern Denmark, Odense, Denmark	CNRS, Paris, France	Proteomic analysis of acylated membrane proteins in <i>Arabidopsis thaliana</i> : A biochemical and mass spectrometry study
	Serguera Lagache, Che	<i>French</i>	EMBL, Monterotondo, Italy	University Paris 7, France	Analysis of neuronal plasticity mediated by TrkB signalling <i>in vivo</i> by a proteomic approach
	Trinh, Emmanuelle	<i>French</i>	European Institute of Oncology, Milan, Italy	Louis Pasteur University, Strasbourg, France	Identification and characterization of novel E2F target genes involved in cell proliferation and tumorigenesis
	Varrot, Annabelle	<i>French</i>	CNRS, Lyon, France	University of York, UK	Mechanistic studies of glycoside hydrolases by X-ray crystallography
<b>Germany</b>	Dickmeis, Thomas	<i>German</i>	MPI of Developmental Biology, Tübingen, Germany	IGBMC, Illkirch, France	Peripheral circadian clocks in the zebrafish: Function and regulation
	Dubreuil, Veronique	<i>German</i>	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Université de la Méditerranée, Marseille, France	Transcription factors controlling mammalian neurogenesis in the context of neuroepithelial cell polarity and asymmetric division
	Enninga, Jost	<i>German</i>	Institute Pasteur, Paris, France	Rockefeller University, New York, USA	Function and spatiotemporal dynamics of a secreted shigella protein complex in infected epithelial cells
	Flemming, Alexandra	<i>German</i>	Cancer Research UK, London, UK	MPI of Immunobiology, Freiburg, Germany	The role of adhesion molecules during negative selection of B-lymphocytes
	Förstemann, Klaus	<i>German</i>	University of Massachusetts, Worcester, USA	ISREC, Epalinges, Switzerland	Mechanism and biology of microRNA function in <i>Drosophila melanogaster</i>
	Foth, Bernardo	<i>German</i>	Imperial College London, London, UK	University of Melbourne, Australia	Structural and functional analysis of class XIV myosins in the human parasite <i>Toxoplasma gondii</i>

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Geldner, Niko	<i>German</i>	The Salk Institute, La Jolla, USA	University of Tübingen, Germany	Investigation of BR1-receptor trafficking and its interplay with brassinosteroid signal transduction	
Grill, Stephan	<i>German</i>	University of California, Berkeley, USA	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Single-molecule study of transcription on chromatin	
Grimm, Oliver	<i>German</i>	IBMB, Barcelona, Spain	Cancer Research UK, Cambridge, UK	Role of the transcriptional repressor Capicua during cell fate specification	
Grüne, Tim	<i>German</i>	University of Göttingen, Germany	EMBL, Grenoble, France	Development of a program to automatically build biological macromolecules into electron density maps resulting from X-ray crystallography with an emphasis on nucleic acids	
Grunwald, Ilona	<i>German</i>	UCLA, Los Angeles, USA	MPI for Neurobiology, Martinsried, Germany	Molecular mechanisms required for selective formation of synapses and their regulation by neuronal activity in <i>C. elegans</i>	
Hecht Stefan	<i>German</i>	Wellcome Trust, Dundee, UK	Technical University of Munich, Germany	Crystallization and structure elucidation of terpenoid proteins	
Lange Heike	<i>German</i>	Louis Pasteur University, Strasbourg, France	University of Marburg, Germany	RNA maturation and degradation in plant mitochondria: The biological role of mitochondrial RNaseII and polynucleotide phosphorylase	
Lemberg, Marius	<i>German</i>	MRC, Cambridge, UK	ETH, Zurich, Switzerland	Analysis of mammalian rhomboids	
Lenz, Oliver	<i>German</i>	EMBL, Grenoble, France	University of Marburg, Germany	Structural analysis of trimeric HIV gp41 in complex with neutralizing antibodies Fabs 2F5 and 4E10	
Lercher, Martin	<i>German</i>	EMBL, Heidelberg, Germany	University of Bath, UK	Evolution of eukaryotic gene order	
Lühn, Kerstin	<i>German</i>	Weatherall Institute of Molecular Medicine, Oxford, UK	MPI of Vascular Biology, Münster, Germany	Cross-reactive immune responses between different flaviviruses as a risk factor for severe dengue infection	
Lutz, Thomas	<i>German</i>	CNB, Madrid, Spain	University of Munich, Germany	Analysis of cellular factors associated with the PA subunit of influenza virus polymerase	
Meister, Gunter	<i>German</i>	Rockefeller University, New York, USA	MPI for Biochemistry, Martinsried, Germany	Identification and functional characterization of microRNP components	
Reinke, Hans	<i>German</i>	University of Geneva, Switzerland	University of Munich, Germany	Differential display of circadian transcription factors	
Schmidt, Mirko	<i>German</i>	Johann Wolfgang Goethe-University, Frankfurt, Germany	Hermelin Brain Tumor Center, Detroit, USA	Functional analysis of the adaptor molecule CIN85 and its isoforms <i>in vivo</i>	
Scholpp, Steffen	<i>German</i>	King's College London, UK	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Cellular and molecular biology of the zona limitans intrathalamica (zli)	

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	Schrader, Jarmo	<i>German</i>	University of Tübingen, Germany	Swedish University of Agricultural Sciences, Umea, Sweden	Role of GNOM, an endosomal ARF GDP/GTP exchange factor of Arabidopsis, in auxin canalization and patterning
	Thanbichler, Martin	<i>German</i>	Stanford University, USA	University of Munich, Germany	Mechanism of chromosome segregation in <i>Caulobacter crescentus</i>
	Tuckermann, Jan Peter	<i>German</i>	Erasmus Medical Centre, Rotterdam, Netherlands	German Cancer Research Center Heidelberg, Germany	Cooperation between SCF and glucocorticoids induces renewal of erythroid progenitors: Functional analysis of selected target genes and elucidation of the regulatory mechanism
	Wagner, Markus	<i>German</i>	Harvard University, Boston, USA	University of Munich, Germany	Identification of new viruscell interaction by the use of recombinant mouse cytomegaloviruses
<b>Greece</b>	Katsani, Aikaterin-Rozalia	<i>Greek</i>	Curie Institute, Paris, France	University of Leiden, The Netherlands	The Drosophila Nup107 subcomplex: its dynamics and role at nuclear pores and kinetochores
	Pinakoulaki, Eftychia	<i>Greek</i>	Johann Wolfgang Goethe-University, Frankfurt, Germany	University of Crete, Heraklion, Greece	Molecular properties of cytochrome cbb3 oxidase from <i>Paracoccus denitrificans</i>
	Pyrowolakis, Georgios	<i>Greek</i>	University of Basel, Switzerland	University of Basel, Switzerland	Molecular basis of the conversion of the Dpp morphogen gradient into an inverse gradient of brinker transcription
<b>Hungary</b>	Kozma-Bognar, Laszlo	<i>Hungarian</i>	University of Warwick, UK	Hungarian Academy of Sciences, Szeged, Hungary	Molecular and cellular mechanisms interconnecting light and clock regulation in <i>Arabidopsis thaliana</i>
	Molnar, Attila	<i>Hungarian</i>	John Innes Centre, Norwich, UK	Agricultural Biotechnology Center, Godollo, Hungary	Function and genetic analyses of RNAi in the unicellular organism <i>Chlamydomonas reinhardtii</i>
	Szittyá, György	<i>Hungarian</i>	John Innes Centre, Norwich, UK	Agricultural Biotechnology Center, Godollo, Hungary	Molecular analysis of the epigenetic regulation of vernalization
	Tirian, Laszlo	<i>Hungarian</i>	IMP, Vienna, Austria	University of Szeged, Hungary	Robo receptor trafficking and axon guidance in the Drosophila CNS
<b>Ireland</b>	McLydsaght, Aoife	<i>Irish</i>	University Claude Bernard, Villeurbanne, France	University of California, Irvine, USA	Investigation of the relationships between gene expression, sequence evolution, and gene duplication
	Rea, Stephen	<i>Irish</i>	EMBL, Heidelberg, Germany	National University of Ireland, Galway, Ireland	Isolation and characterization of the mammalian MSL complex

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Aharoni, Amir	<i>Israeli</i>	University of British Columbia, Vancouver, Canada	Weizmann Institute of Science, Rehovot, Israel	Directed evolution of glycosyltransferases for the enzymatic synthesis of novel oligosaccharides	<b>Israel</b>
Ben-Zvi, Anat	<i>Israeli</i>	Northwestern University, Evanston, USA	University of Lausanne, Switzerland	Identification and characterization of the toxic form(s) of poly-glutamine aggregates	
Gilad, Yoav	<i>Israeli</i>	Yale University, New Haven, USA	MPI for Evolutionary Anthropology, Leipzig, Germany	Finding differences in the expression profile of nutrition-related genes between human and other primates	
Gollan, Leora	<i>Israeli</i>	Columbia University, New York, USA	Weizmann Institute of Science, Rehovot, Israel	Contribution of alternative splicing of neurexins to the molecular and functional identity of neurons in the central nervous system	
Zamir, Eli	<i>Israeli</i>	EMBL, Heidelberg, Germany	Weizmann Institute of Science, Rehovot, Israel	Dynamics of the EGF and NGF signalling network in PC12 cells	
Bagnat, Michel	<i>Italian</i>	University of California, San Francisco, USA	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Epithelial morphogenesis during zebrafish gut development	<b>Italy</b>
Bonaldi , Tiziana	<i>Italian</i>	University of Munich, Germany	Dibit Scientific Institute, Milan, Italy	Analysis of the histone code by mass spectrometry	
Cardone, Luca	<i>Italian</i>	IGBMC, Illkirch, France	University of Naples, Italy	Unravelling circadian activation loops in chromatin remodelling	
De Marco, Valeria	<i>Italian</i>	The Netherlands Cancer Institute, Amsterdam, Netherlands	EMBL, Heidelberg, Germany	Molecular basis for specific mRNA recognition and cytoplasmic transport: Functional and structural characterization of the yeast locosome	
Hilliard, Massimo A.	<i>Italian</i>	University of California, San Francisco, USA	University of California, San Diego, USA	Identification of molecules that regulate antero-posterior axonal guidance in <i>C. elegans</i>	
Iaccarino, Ciro	<i>Italian</i>	EMBL, Monterotondo, Italy	IGBMC, Illkirch, France	Genetic approach to study the role of p38alpha MAPK in the nervous system	
Pasqualato, Sebastiano	<i>Italian</i>	European Institute of Oncology, Milan, Italy	University of Paris XI, France	Structural and biochemical characterization of the mitotic checkpoint complex	
Santoro, Massimo	<i>Italian</i>	University of California, San Francisco, USA	University of Piemonte Orientale, Novara, Italy	Molecular genetics of vascular myogenesis in zebrafish	
Sironi, Lucia	<i>Italian</i>	EMBL, Heidelberg, Germany	European Institute of Oncology, Milan, Italy	Characterization of the functional link between NPCs and kinetochores	
Strigini, Maura	<i>Italian</i>	University of Cambridge, UK	IMBB/FORTH, Heraklion, Greece	The role of Hox genes in establishing guidance cues in the <i>Drosophila</i> embryonic nervous system	

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	Varani, Luca	<i>Italian</i>	Stanford University, USA	University of Florence, Italy	Probing the mechanism of HIV reverse transcription using single molecule fluorescence spectroscopy
<b>Poland</b>	Deneka, Magdalena	<i>Polish</i>	University College London, UK	University Medical Centre, Utrecht, The Netherlands	HIV assembly and release in primary cells
	Minczuk, Michal	<i>Polish</i>	MRC, Cambridge, UK	University of Warsaw, Poland	Use of recombinant zinc fingers to manipulate mutant human mtDNA replication and the expression of mitochondrial genes
	Slominska, Monika	<i>Polish</i>	Institute for Cancer Research, Oslo, Norway	University of Gdansk, Poland	Uptake and intracellular transport of protein toxins
	Sumara, Izabela	<i>Polish</i>	ETH, Zurich, Switzerland	Research Institute of Molecular Pathology, Vienna, Austria	Identification and functional characterization of a novel class of evolutionary conserved E3 ligases
<b>Portugal</b>	Gomes, José-Eduardo	<i>Portuguese</i>	CNRS, Paris, France	University of Oregon, Eugene, USA	Transcriptional regulation of cell polarity in the <i>Drosophila</i> sensory organ
	Moita, Marta	<i>Portuguese</i>	Gulbenkian Institute, Oeiras, Portugal	Cold Spring Harbor Laboratory, USA	The role of A-kinase anchoring proteins in synaptic plasticity
	Nery, Susana	<i>Portuguese</i>	London School of Hygiene and Tropical Medicine, London, UK	Skirball Institute, New York, USA	Mechanisms of erythrocyte invasion by <i>Plasmodium falciparum</i> merozoites
	Nunes, Marta	<i>Portuguese</i>	Institute Pasteur, Paris, France	Cornell University, New York, USA	Antigenic variation and adhesion in placental malaria: Investigation of factors that induce switching of expression of variant surface molecules
	Ribeiro, Carlos	<i>Portuguese</i>	IMP, Vienna, Austria	Biocenter, Basel, Switzerland	Cell biology of axon pathfinding in the <i>Drosophila</i> CNS
	Silva, Jose	<i>Portuguese</i>	Institute for Stem Cell Research, Edinburgh, UK	Institute for Stem Cell Research, Edinburgh, UK	Investigation of epigenetic reprogramming in embryonic stem-differentiated cell hybrids
<b>Spain</b>	Aznar Benitah, Salvador	<i>Spanish</i>	Cancer Research UK, London, UK	Biomedical Research Institute, Madrid, Spain	Role of Rho GTPases in keratinocyte stem cell fate and implication in skin cancers
	Barcena Martin, Montserrat	<i>Spanish</i>	Utrecht University, The Netherlands	University of Vermont, Burlington, USA	Electron tomography of vaccinia virus
	Barradas, Marta	<i>Spanish</i>	Cancer Research UK, London, UK	CNB, Madrid, Spain	Consequences of a beta1 integrin mutation for squamous cell carcinoma
	Borrell, Maria	<i>Spanish</i>	Curie Institute, Orsay, France	Curie Institute, Orsay, France	Huntington's disease: Study of normal and pathological huntingtin in the control of vesicular trafficking

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Cadiñanos, Juan	<i>Spanish</i>	Dana Farber Cancer Institute, Boston, USA	University of Oviedo, Spain	Pancreatic cancer gene discovery	
Carballido-Lopez, Rut	<i>Spanish</i>	INRA, Jouy-en-Josas, France	University of Oxford, UK	Study of the links between DNA replication and cell division	
Carrera Santaliestra, Pilar	<i>Spanish</i>	IGBMC, Illkirch, France	MPI of Biophysical Chemistry, Göttingen, Germany	Drosophila cypif, a molecular link between actin cytoskeleton remodelling and fragile X mental retardation	
Castellano Moreno, María del Mar	<i>Spanish</i>	John Innes Centre, Norwich, UK	University Autonoma Madrid, Spain	Functional analysis of Arabidopsis genes that may participate in conserved stem cell functions	
Franco, Sonia	<i>Spanish</i>	Childrens Hospital, Boston, USA	CSIC, Madrid, Spain	Genetic interaction of ATM and the histone variant H2AX in tumour suppression during lymphocyte development	
García Alvarez, Begoña	<i>Spanish</i>	Spanish National Cancer Center, Madrid, Spain	Burnham Institute, La Jolla, USA	Structural studies on mitotic key regulators: The Polo kinase family	
García Mira, María del Mar	<i>Spanish</i>	University of Bayreuth, Germany	University of Granada, Spain	Designing protein stability by computational electrostatics and directed evolution	
Garcia Rondon, Ana	<i>Spanish</i>	University of Oxford, UK	University of Seville, Spain	Interconnections between splicing, mRNA 3'-end processing and transcription termination	
Giraldez, Antonio	<i>Spanish</i>	Skirball Institute, New York, USA	EMBL, Heidelberg, Germany	Nodal signalling during zebrafish development	
Mercader, Nadia	<i>Spanish</i>	EMBL, Heidelberg, Germany	CNB, Madrid, Spain	The analysis of paired fin development in the zebrafish	
Minguillon Gil, Carolina	<i>Spanish</i>	MRC, London, UK	University of Barcelona, Spain	A genetic approach to investigating the signals required for limb-type specification and initiation of limb outgrowth	
Palomo Carmona, Jose M.	<i>Spanish</i>	MPI of Molecular Physiology, Dortmund, Germany	CSIC, Madrid, Spain	Synthesis of fully functional Ras proteins by expressed protein ligation and identification of their putative binding partners	
Ranz, Jose Maria	<i>Spanish</i>	University of Cambridge, UK	Harvard University, Cambridge, USA	Transcriptional characterization of the inviability and sterility in interspecific hybrids of Drosophila	
Ruiz-Trillo, Inaki	<i>Spanish</i>	Dalhousie University, Halifax, Canada	University of Barcelona, Spain	The origins and evolution of genes and organelles in eukaryotes	
Samper, Enrique	<i>Spanish</i>	Buck Institute, Novato, USA	National Centre of Biotechnology, Madrid, Spain	Connection between oxidative stress, DNA damage and age-related pathologies: Use of the superoxide dismutase 2 and p53 knockout mice as model systems	



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	Valdes, Haydee	<i>Spanish</i>	Czech Academy of Sciences, Prague, Czech Republic	University of Oviedo, Spain	The study of tautomeric equilibria of nucleic acid bases and methylated nucleic acid bases in the gas-phase, in a microhydrated environment and in water, using quantum chemistry methodologies
	Valls, Marc	<i>Spanish</i>	ICNRS, Castanet, France	CNB, Madrid, Spain	Identification and characterization of novel Type-III plant pathogenicity effectors in <i>Ralstonia solanacearum</i>
	Veiga, Esteban	<i>Spanish</i>	Institute Pasteur, Paris, France	CNB, Madrid, Spain	Effects of Listeria infection on ubiquitination and SUMOylation of host cell proteins
<b>Sweden</b>	Alenius, Mattias	<i>Swedish</i>	IMP, Vienna, Austria	Umea University, Sweden	Neuronal connectivity in the <i>Drosophila</i> olfactory system
	Edman, Karl	<i>Swedish</i>	MRC, Cambridge, UK	Astra Zeneca, Molndal, Sweden	Structural studies of the human A2A receptor
	Larsson, Jonas	<i>Swedish</i>	Harvard University, Boston, USA	Lund University, Sweden	Identification of novel targets for manipulation of haematopoietic stem- and progenitor cells
	Mata de Urquiza, Alexander	<i>Swedish</i>	University of California, San Diego, USA	Karolinska Institute, Stockholm, Sweden	Isolation and characterization of proteins that regulate the pro- and anti-atherogenic roles of PPAR gamma in macrophages
<b>Switzerland</b>	Hiltbrunner, Andreas	<i>Swiss</i>	University of Freiburg, Germany	University of Neuchatel, Switzerland	Light-dependent nuclear import of phytochromes
	Kos, Isabelle	<i>Swiss</i>	University of Edinburgh, UK	EMBL, Heidelberg, Germany	Biochemical purification and identification of the components of ribonucleoprotein complexes involved in mRNA localization in <i>Drosophila</i>
	Kressler, David	<i>Swiss</i>	University of Heidelberg, Germany	University of Basel, Switzerland	Analysis of the functional environment and the mechanism of action of the putative AAA-type ATPase Rix7p during ribosome in <i>Saccharomyces cerevisiae</i>
	Schibli, David	<i>Swiss</i>	EMBL, Grenoble, France	University of Calgary, Canada	Crystal structures of membrane anchored full-length fusion proteins from HIV and/or Ebola virus
	Sieber, Patrick	<i>Swiss</i>	California Institute of Technology, Pasadena, USA	University of Zurich, Switzerland	Stem cell regulation in the Arabidopsis floral meristem: An inducible RNAi screen to identify regulators of floral determinacy

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Ulm, Roman	Swiss	University of Freiburg, Germany	Friedrich Miescher Institute, Basel, Switzerland	A genetic approach to UV-B perception and signalling in Arabidopsis	
De Planque, Maurits	Dutch	University of Oxford, UK	Utrecht University, The Netherlands	Multidimensional solid-state NMR structure determination of membrane proteins	The Netherlands
Fischer, Sylvia	Dutch	Massachusetts General Hospital, Boston, USA	Utrecht University, The Netherlands	Analysis of microRNA activity in <i>C. elegans</i>	
Jansens, Annemieke	Dutch	Stanford University, USA	Utrecht University, The Netherlands	Assisted protein folding in the cell: Structural and functional analysis of chaperone binding to translating polypeptides	
Martens, Joost	Dutch	IMP, Vienna, Austria	Leiden University, The Netherlands	Epigenetic plasticity of mouse chromosome 6	
Mikkers, Henricus	Dutch	Karolinska Institute, Stockholm, Sweden	Netherlands Cancer Institute, Amsterdam, The Netherlands	The identification of genes regulating dedifferentiation of neural cells	
Nolte, Martijn	Dutch	Cancer Research UK, London, UK	Academic Medical Center, Amsterdam, The Netherlands	Visualization of DC function <i>in vivo</i>	
Pelkmans, Lucas	Dutch	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	ETH, Zurich, Switzerland	Functional analysis of caveolae- and lipid raft-mediated endocytosis	
Sprangers, Remco	Dutch	University of Toronto, Canada	EMBL, Heidelberg, Germany	Structure and dynamics of Eph receptor juxtamembrane-kinase domains: The molecular basis of the enzyme's mechanism	
van der Gucht, Jasper	Dutch	Curie Institute, Paris, France	Wageningen University, The Netherlands	Liposomes biomimicking cell motility	
van Horck, Francis	Dutch	University of Cambridge, UK	Netherlands Cancer Institute, Amsterdam, The Netherlands	The role of messenger RNA localization and translation in axonal growth cone guidance	
Everett, Helen	British	University of Lausanne, Switzerland	University of Alberta, Canada	Characterization of the pro-apoptotic protein, Bcl-rambo, and its role in modulating mitochondria-mediated cell death	United Kingdom
Samuels, Yarden	British	The Johns Hopkins Medical School, Baltimore, USA	Ludwig Institute for Cancer Research, London, UK	Transcriptional roles of HIF-1a and p53 during hypoxia-mediated apoptosis	
Sullivan, Matt	British	University of California, San Francisco, USA	Cancer Research UK, London, UK	Regulation of early meiotic events by the anaphase-promoting complex	
Tatham, Michael	British	University of Lausanne, Switzerland	University of St. Andrews, UK	Inactivation of the ubiquitin-conjugating enzyme UBE2E3, involved in Nedd4-2 dependent regulation of ENaC, in the mouse collecting duct	

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<b>other nationalities</b>	Greenwald, Jason	<i>American</i>	ESBS, Illkirch, France	Salk Institute, La Jolla, USA	Structural investigation of the iron transport mechanism in <i>Pseudomonas aeruginosa</i>
	Murray, Heath	<i>American</i>	University of Oxford, UK	University of Wisconsin, Madison, USA	Location and assembly of cell wall metabolic enzymes
	Thompson, Barry	<i>Australian</i>	EMBL, Heidelberg, Germany	MRC, Cambridge, UK	Control of tissue growth in <i>Drosophila</i>
	Tucker, Matthew	<i>Australian</i>	University of Freiburg, Germany	CSIRO, Adelaide, Australia	The role of ZWILLE during Arabidopsis stem cell development
	Mackereth, Cameron	<i>Canadian</i>	EMBL, Heidelberg, Germany	University of British Columbia, Vancouver, Canada	Structural study of splicing factor SPF45 and pre-spliceosome complex E
	Nelson, Chris	<i>Canadian</i>	University of Cambridge, UK	University of British Columbia, Vancouver, Canada	The function of novel histone modifications in yeast and man
	Loyola, Alejandra	<i>Chilean</i>	Curie Institute, Paris, France	Universidad de La Frontera, Temuco, Chile	Epigenetic maps in <i>Xenopus laevis</i> development and nuclear reprogramming
	Cao, Xiaochun	<i>Chinese</i>	MPI of Biochemistry, Martinsried, Germany	Harvard Medical School, USA	The role of the proteasome and molecular chaperones in the pathogenesis of Huntington's disease
	Bhattacharyya, Suvendra Nath	<i>Indian</i>	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	Indian Institute of Chemical Biology, Calcutta, India	Complexes containing miRNAs and their target mRNAs in mammalian cells
	Fukao, Taro	<i>Japanese</i>	INSERM-CNRS, Marseille, France	Keio University, Tokyo, Japan	Role of MafB, a myeloid transcription factor, in macrophage and dendritic cell biology
	Nishino, Tatsuya	<i>Japanese</i>	IMP, Vienna, Austria	Biomolecular Engineering Research Institute, Osaka, Japan	Molecular analyses of cohesin assembly and cohesion establishment
	Ohashi, Yohei	<i>Japanese</i>	MRC, Cambridge, UK	Kyoto University, Japan	Characterization of the Arf-like GTPase Arl8, a novel GTPase of lysosomes and endosomes
	Kazlauskas, Arunas	<i>Lithuanian</i>	University of Heidelberg, Germany	Karolinska Institute, Stockholm, Sweden	Molecular cochaperone CHIP: A regulator of the cellular protein triage decision
	Funes, Maria Soledad	<i>Mexican</i>	University of Munich, Germany	University of Mexico, Mexico	Functional dissection of the Oxa1 translocase
Torres-Padilla, Maria-Elena	<i>Mexican</i>	University of Cambridge, UK	Institut Pasteur, Paris, France	Screening for asymmetrically expressed genes in mouse embryo at the earliest post-implantation stages	
Tariq, Muhammad	<i>Pakistani</i>	University of Heidelberg, Germany	University of Basel, Switzerland	Role of Hsp90 in epigenetic regulation of gene expression by Trithorax/Polycomb group proteins in <i>Drosophila</i>	

<b>name</b>	<b>nationality</b>	<b>guest laboratory</b>	<b>previous laboratory</b>	<b>research Interest</b>	<b>country</b>
Martianov, Igor	<i>Russian</i>	University of Oxford, UK	GBMC, Illkirch, France	Analysis of the composition and regulation of the human RNA polymerase II reinitiation scaffold	
Gregan, Juraĵ	<i>Slovakian</i>	IMP, Vienna, Austria	University of Oxford, UK	A screen for genes involved in meiotic chromosome mis-segregation in the fission yeast <i>S. pombe</i>	
Jasencakova, Zuzana	<i>Slovakian</i>	IGB CNR, Naples, Italy	IPK, Gatersleben, Germany	Role of Polycomb group (PCG) proteins in cell differentiation and dedifferentiation	
Kim, Min Chul	<i>South Korean</i>	MPI for Developmental Biology, Tübingen, Germany	Gyeongsang National University, Korea	Relay of flowering signals from RKIP to bZIP proteins	

number and  
percentage of long-  
term fellowship  
applications  
and awards from  
1998 – 2003

Country from	Applications	% of Total	Awards	% of Total
Austria	64	1.58	17	2.10
Belgium	67	1.65	13	1.60
Croatia	13	0.32	2	0.25
Cyprus	3	0.07	1	0.12
Czech Republic	29	0.71	6	0.74
Denmark	47	1.16	10	1.23
Finland	52	1.28	12	1.48
France	819	20.18	160	19.72
Germany	489	12.05	119	14.67
Greece	86	2.12	21	2.59
Hungary	40	0.99	12	1.48
Iceland	4	0.10	0	-
Ireland	38	0.94	7	0.86
Israel	240	5.91	47	5.80
Italy	275	6.78	53	6.54
Netherlands	161	3.97	54	6.66
Norway	13	0.32	1	0.12
Poland*	38	0.94	6	0.74
Portugal	46	1.13	18	2.22
Slovenia	11	0.27	0	-
Spain	491	12.10	90	11.10
Sweden	154	3.79	23	2.84
Switzerland	67	1.65	22	2.71
Turkey	22	0.54	1	0.12
United Kingdom	246	6.06	29	3.58
East Europe	99	2.44	8	0.99
USA/Canada	165	4.07	39	4.81
Others	280	6.90	40	4.93
<b>total</b>	<b>4059</b>	<b>100</b>	<b>811</b>	<b>100</b>

\* not member for the full-time period

year	applications	awards	%
1979	254	101	(40%)
1980	242	108	(45%)
1981	274	111	(41%)
1982	276	91	(33%)
1983	294	103	(35%)
1984	305	112	(37%)
1985	340	92	(27%)
1986	333	90	(27%)
1987	383	120	(31%)
1988	455	141	(31%)
1989	460	118	(26%)
1990	526	123	(23%)
1991	571	139	(24%)
1992	626	142	(23%)
1993	739	199	(27%)
1994	806	176	(22%)
1995	877	147	(17%)
1996	898	160	(18%)
1997	831	185	(22%)
1998	790	144	(18%)
1999	830	170	(20%)
2000	707	155	(22%)
2001	645	147	(23%)
2002	789	178	(23%)
2003	1080	164	(15%)

**long-term  
fellowships pattern  
of applications and  
awards 1979 – 2003**

## applications

to	from	Austria	Belgium	Croatia	Cyprus	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	USA/Can	others	total
Austria									1	2		1				1										1	1	2	13	
Belgium			1					6					1		2					1				1			1		12	
Croatia																													0	
Cyprus																													0	
Czech Rep.																						1							1	
Denmark							1	2								1	1						2			1			8	
Finland																													0	
France		2			1	3	1	20	17	2			1	2	7	3	1	2	5			15	3	3	2	5	10	17	12	137
Germany	3				1	2	13	8	1	1			1	8	4	1		1	1	5	2	3		2	4	9	17	86		
Greece										3					1											2			6	
Hungary																													0	
Iceland								1																					1	
Ireland																													0	
Israel								2																	1	1			4	
Italy	1					1	4	6		1	1				14		1				3				3	4	3	4	66	
Netherlands		1					1	6	5			1			3	1					6	1				1	1	2	29	
Norway																			1				2		1				4	
Poland																													0	
Portugal									2				2							2		1			1				8	
Slovenia																						1							1	
Spain			1			1		7	6	1			1		4				1			11	2	1		2	3	6	47	
Sweden	1	1					1	5	3	1			1		4	3		3	1			1				1	2	1	30	
Switzerland		1	1		1	1	2	11	8	2	2				2	1		1				6	1		2	4	7	53		
Turkey																									1				1	
UK	4	6			2	1	5	49	15	4	4		2	6	10	6	1	3	2	1	30	8	3	1	1	7	13	30	214	
EMBL	2							2	11	1	4		2	1	1				1			4					2	3	37	
East Europe																													0	
USA/Can	8	3	2	1	3	5	2	73	47	10	1		6	44	21	22		1	5		20	16	3	5	26	1	2	327		
others								1	3						1	1						3	3	1	2				16	
total		19	15	4	1	8	11	15	202	136	25	14	2	15	55	74	46	2	15	17	2	110	44	14	9	48	37	53	86	1060



## awards

to	from	Austria	Belgium	Croatia	Cyprus	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	USA/Can	others	total
Austria												1				1			1									2	6	
Belgium																				1										0
Croatia																														0
Cyprus																														0
Czech Rep.																						1								1
Denmark							1																							1
Finland																														0
France								1	4	3	1		1		1	1			2			5	1			1	2		23	
Germany	3							1	1	5	1					1	1					2	3		1		5		24	
Greece																														0
Hungary																														0
Iceland																														0
Ireland																														0
Israel																														0
Italy								2							2										1				6	
Netherlands										1						1						1								8
Norway																			1											1
Poland																			1											0
Portugal																				1										1
Slovenia																														0
Spain						1				2												1								4
Sweden																1														1
Switzerland		1		1			2	1	1										1						2		1		10	
Turkey																						1								0
UK		1			1		8	6	3						1	3		2	2			6	1	1		3	2		40	
EMBL							1	1				1	1	1								1					1	1	8	
East Europe																														0
USA/Can		1		1			6	7						4	4	3						5	2	1	2				36	
others																														0
total		4	2	0	0	2	2	2	25	26	3	4	0	2	5	11	10	0	4	6	0	22	4	6	0	4	2	5	13	164

country	name	nationality	guest laboratory	home laboratory	research interest
<b>Belgium</b>	De Naeyer, An	<i>Belgian</i>	Karolinska Institute, Stockholm, Sweden	Ghent University, Belgium	Ligand screening of natural plant compounds as selective estrogen/orphan receptor modifiers and exploration of their (non) genomic hormone activities
	Ghislain, Julien	<i>Belgian</i>	Sars International Centre for Molecular Marine Biology, HIB, Bergen, Norway	INSERM, Paris, France	Identification of genes controlling glial cell development and myelination
	Van Rompay, An	<i>Belgian</i>	Leiden University Medical Centre, The Netherlands	University of Antwerp, Wilrijk (Antwerpen), Belgium	Chronic uraemia blunts ischaemia/reperfusion injury after isogenic kidney transplantation in the rat: the influence of chronic renal failure on endothelial and leukocyte activation
	Wery, Maxime	<i>Belgian</i>	Laboratory of Physiogenomics, Gif sur Yvette, France	Laboratory for Molecular Genetics, Namur, Belgium	Role of the SAGA complex in transcription by RNA polymerases I, II and III in <i>Saccharomyces cerevisiae</i>
<b>Croatia</b>	Husnjak, Koraljka	<i>Croatian</i>	Ludwig Institute for Cancer Research, Uppsala, Sweden	Rudjer Boskovic Institute, Zagreb, Croatia	Determination of protein partners of FHIT (fragile histidine triad) tumour suppressor protein by means of yeast-two hybrid system and functional analyses of protein interactions
<b>Czech Republic</b>	Elias, Marek	<i>Czech</i>	University of Oxford, UK	Charles University, Prague, Czech Republic	<i>In vivo</i> interplay of the exocyst and RAB GTPases in the plant cell
	Flachs, Pavel	<i>Czech</i>	RIKILT - Institute of Food Safety, Wageningen, The Netherlands	Czech Academy of Sciences, Prague, Czech Republic	Identification of genes selectively regulated by dietary long-chain omega-3 polyunsaturated fatty acids in adipose tissue
	Kindova, Olga	<i>Czech</i>	Zurich University, Switzerland	Czech Academy of Sciences, Prague, Czech Republic	Two-hybrid analysis of interactions between <i>Saccharomyces cerevisiae</i> plasma membrane proteins: identification of Nha1p's partners in response to osmotic stress
	Prokop, Zbynek	<i>Czech</i>	University of Groningen, The Netherlands	Masaryk University, Czech Republic	The enantioselectivity of hybrid haloalkane dehalogenases
<b>Denmark</b>	Brodersen, Peter	<i>Danish</i>	John Innes Centre, Norwich, UK	University of Copenhagen, Denmark	Identification of Arabidopsis MAP kinase 4 substrates by direct, specific labelling
	Soerensen, Rikke	<i>Danish</i>	Institute of Structural Biology Jean-Pierre Ebel, Grenoble, France	University of Aarhus, Denmark	Characterisation of the interaction between mannan-binding lectin associated serine protease 2 (MASP-2) and recognition proteins of the lectin pathway of complement activation

name	nationality	guest laboratory	home laboratory	research interest	country
Mäki, Joni	<i>Finnish</i>	University of Manchester, UK	University of Oulu, Finland	Role of the first described lysyl oxidase isoenzyme LOX in assembly of elastic fibres	<b>Finland</b>
Sarkkinen, Elisa	<i>Finnish</i>	MPI for Biochemistry, Martinsried, Germany	University of Helsinki, Finland	Generation of twinfilin-1 and twinfilin-2 knock-out mice	
Yläänne, Jari	<i>Finnish</i>	MRC, Cambridge, UK	University of Oulu, Finland	Interactions of the COOH-terminal domain of human filamin	
Achard, Maud	<i>French</i>	Groningen Biomolecular Science and Biotechnology Institute, Haren, The Netherlands	LEESA, Arcachon, France	MDR1-like protein and cadmium resistance	<b>France</b>
Akarsu, Hatice	<i>French</i>	EMBL, Heidelberg, Germany	Faculty of Pharmacy, La Tronche, France	<i>In vivo</i> studies of nuclear export activity of influenza virus vRNPs	
Banroques, Josette	<i>French</i>	University of Geneva, Switzerland	CNRS, Gif-sur-Yvette, France	Structural and functional analysis of RNA helicases in yeast	
Cuni, Aude	<i>French</i>	University of Heidelberg, Germany	CNRS, Paris, France	Calculation of the electrostatic interaction between the bacterochlorophyll dimer and the c559 haem in <i>Rhodospseudomonas viridis</i>	
Delbarre, Erwan	<i>French</i>	EMBL, Heidelberg, Germany	Jacques Monod Institute, Paris, France	Stability in the nuclear envelope of lamin A harbouring mutations responsible for human genetic diseases	
Feau, Sonia	<i>French</i>	Institute for Research in Biomedicine, Bellinzona, Switzerland	University of Milano-Bicocca, Milan, Italy	Regulation of the IL-2 promoter in dendritic cells by chromatin immunoprecipitation analysis (ChIP)	
Folichon, Marc	<i>French</i>	University of Uppsala, Sweden	CNRS, Paris, France	Kinetic analysis of Hfq-RNA interactions	
Gauliard, Nicolas	<i>French</i>	University of Glasgow, UK	Pasteur Insitute, Paris, France	Rescue of Rift Valley fever virus entirely from cDNAs	
Lemaitre, Bruno	<i>French</i>	University of Stockholm, Sweden	CNRS, Gif-sur-Yvette, France	Genetic analysis of the <i>Drosophila</i> clotting reaction	
Levy, Julien	<i>French</i>	University of Wageningen, The Netherlands	Institute of Plant-Microorganism Interactions, Castanet-Tolosan, France	Positional cloning of DMI3, a gene controlling the establishment of root endosymbiosis in the model legume <i>Medicago truncatula</i>	
Meister, Pierre	<i>French</i>	University of Geneva, Switzerland	CNRS, Orsay, France	Dynamics of replication factories in fission yeast	
Mourrain, Philippe	<i>French</i>	Sars International Centre for Marine Molecular Biology, Bergen, Norway	ENS, Paris, France	Isolation of zebrafish enhancer trap lines with specific expression of GFP in endoderm and derivatives	
Nègre, Nicolas	<i>French</i>	Yale University School of Medicine, New Haven, USA	Institute of Human Genetics, Montpellier, France	Profiling the distribution of Polycomb Group and Trithorax Group proteins along the chromosomes in <i>Drosophila</i>	
Pizon, Véronique	<i>French</i>	EMBL, Heidelberg, Germany	Jacques Monod Institute, Paris, France	Dynamic relation of the sarcomeric myosin and of the microtubule network in differentiating skeletal muscle cells	

country	name	nationality	guest laboratory	home laboratory	research interest
	Reymond, Nancie	<i>French</i>	University of York, UK	UMR INRA/INSA, Villeurbanne, France	Effect of essential amino acid composition and sucrose concentration in the diet of the pea aphid <i>Acyrtosiphon pisum</i> on expression of the symbiotic bacterium <i>Buchnera aphidicola</i>
	Toesca, Isabelle	<i>French</i>	University of Cambridge, UK	IBCG, Toulouse, France	Mapping of phosphorylation sites in <i>E. coli</i> RNAse E by the bacteriophage T7 protein kinase
<b>Germany</b>	Albers, Sonja-Verena	<i>German</i>	Technical University, Darmstadt, Germany	University of Groningen, The Netherlands	<i>In vivo</i> study of transcriptional regulation and homologous protein (over)expression in the thermoacidophilic archaeon <i>Sulfolobus solfataricus</i>
	Bader, Ingrid	<i>German</i>	University of Leicester, UK	GSF Research Centre, Neuherberg, Germany	Systematic characterization of polypurine/polypyrimidine minisatellites in the human genome and investigation of their role in human disease
	Birgul, Necla	<i>German</i>	University Clinic of Eppendorf, Hamburg, Germany	University of Bogazici, Istanbul, Turkey	Analysis of drostar-1 and -2 site-directed mutagenesis
	Ernst, Robert	<i>German</i>	University of Utrecht, The Netherlands	Johann Wolfgang Goethe-University, Frankfurt am Main, Germany	Functional reconstitution of the yeast ABC-transporter Pdr5p and investigation of its role in lipid translocation
	Geling, Andrea	<i>German</i>	Sars International Centre for Marine Molecular Biology, Bergen, Norway	Institute of Developmental Genetics, Neuherberg, Germany	Isolation of zebrafish enhancer trap lines with selective and sustained expression of GFP at the midbrain-hindbrain boundary
	Gösch, Michael	<i>German</i>	EPFL, Lausanne, Switzerland	Karolinska Institute, Stockholm, Sweden	Multifocal lifetime measurements and single-molecule detection with novel single-photon CMOS technology detector arrays
	Hagedorn, Monica	<i>German/American</i>	EMBL, Heidelberg, Germany	University of Ulm, Germany	Localization of SERCA in a calcium-transporting epithelium using immunocytochemistry
	Jordan, Tina	<i>German</i>	CIRAD-AMIS, Montpellier, France	University of Halle, Germany	Construction of a large Bs3 insert containing the pepper BAC library
	Lederer, Carsten	<i>German</i>	EMBL, Heidelberg, Germany	University of Cyprus, Nicosia, Cyprus	Motor proteins and human neurological disease: subcellular localization of kinesin-like proteins from the human motor cortex
	Lübke, Torben	<i>German</i>	Telethon Institute of Genetics and Medicine, Naples, Italy	University of Göttingen, Germany	A complementation cloning approach to identify the gene responsible for mucopolysaccharidosis Type IIIC (Sanfilippo Syndrome C)

name	nationality	guest laboratory	home laboratory	research interest	country
Müllenbach, Roman	German	Academic Medical Centre, Amsterdam, The Netherlands	Imperial College, London, UK	Functional impact of variations in the FIC1/ATP8B1 gene	
Paik, Johanna	German	Institute for Structural Biology and Microbiology, Marseille, France	Cancer Research UK, South Mimms, UK	Regulation of histone mRNA localization and stability in response to DNA damage	
Schlangen, Karin	German	Technical University, Munich, Germany	Technical University, Vienna, Austria	Substrate specificity of dihydroflavonol-4-reductase, a key enzyme of the flavonoid pathway	
Schluempmann, Henriette	German	MPI for Molecular Plant Physiology, Potsdam, Germany	Centre for Molecular Plant Physiology, Utrecht, The Netherlands	Metabolomic analysis of plants with altered trehalose metabolism	
Boulias, Konstantinos	Greek	Medical Research Council, Harwell, Oxon, UK	Institute for Molecular Biology and Biotechnology, Heraklion, Crete	Microarray analysis to identify SHP target genes	Greece
Fostieri, Eyfrosini	Greek	Surgery Centre 'Marie Lannelongue', Le Plessis Robinson, France	Hellenic Pasteur Institute, Athens, Greece	Elucidation of the signal transduction pathway upregulating mRNA levels of the human nicotinic acetylcholine receptor subunits in the case of antigenic modulation, using cDNA microarrays	
Kalliampakou, Aikaterinh	Greek	Pasteur Institute, Paris, France	Hellenic Pasteur Institute, Athens, Greece	Interaction between the internal ribosome entry site (IRES) and the 98X segment of the 3' non-translated region of hepatitis C virus	
Siden-Kiamos, Inga	Greek/ Swedish	Imperial College, London, UK	Institute of Molecular Biology and Biotechnology, Heraklion, Greece	Ca <sup>2+</sup> signalling in the Plasmodium parasite during ookinete invasion of mosquito cells: development of an assay for measuring the intracellular Ca <sup>2+</sup> concentration in the ookinete stage of <i>Plasmodium berghei</i>	
Spathis, Athanasios	Greek	MRC Clinical Sciences Centre, London, UK	University of Patras, Greece	Identification of candidate genes involved in the initiation of the neurodegenerative process in the weaver mouse	
Spyroulias, Georgios	Greek	University of Florence, Italy	Laboratory of Pharmacognosy and Chemistry of Natural Products, Patras, Greece	NMR structure elucidation of angiotensin-I converting enzyme (ACE) catalytic sites and their complexes with angiotensin-I	
Tolia, Alexandra	Greek	Centre for Human Genetics, Leuven, Belgium	University of Athens, Greece	Structure-function analysis of presenilin	
Varotsis, Constantinos	Greek	Okazaki National Research Institutes, Okazaki, Japan	University of Crete, Heraklion, Crete	NO intermediates of nitric oxide reductase	
Xanthou-Tsingoglou, Georgina	Greek/ British	Imperial College, London, UK	Transplantation Centre, Athens, Greece	Role of the TGF-signalling system in the development of, airway remodelling' during chronic allergic airway inflammation	
Xouri, Georgia	Greek	EMBL, Heidelberg, Germany	University of Patras, Greece	Imaging the human licensing factors Cdt1 and Geminin in the living cell	

country	name	nationality	guest laboratory	home laboratory	research interest
<b>Hungarian</b>	Bárány, Ivett	<i>Hungarian</i>	University of London, UK	CSIC, Madrid, Spain	To determine the MAPK modules involved in the switch of the pollen developmental programme towards embryogenesis
	Kiss, Arnold	<i>Hungarian</i>	University Paul Sabatier, Toulouse, France	Institute of Plant Biology, Szeged, Hungary	Identification of novel human small nuclear RNAs
	Kiss, Janos	<i>Hungarian</i>	CNRS, Toulouse, France	Environmental Bio-safety Research Institute, Godoll, Hungary	Development of an <i>in vitro</i> transposition system for the IS30 element
	Nagy, Zita	<i>Hungarian</i>	CNRS, Toulouse, France	Agricultural Biotechnology Centre, Szent-Gyorgyi, Hungary	Functional analysis of the domain responsible for target specificity of IS30 transposase
	Timinszky, Gyula	<i>Hungarian</i>	EMBL, Heidelberg, Germany	University of Szeged, Hungary	Visualization of the RanGTP gradient in <i>Drosophila</i> cleavage embryos injected with P446L-importin that prevents nuclear envelope assembly
<b>Ireland</b>	Croke, David	<i>Irish</i>	University of Ferrara, Italy	University of Dublin, Ireland	Population genetic studies of common pathogenic mutations in the human GALT locus in Europe
	Hunt, Mary	<i>Irish</i>	University of Amsterdam, The Netherlands	Karolinska Institute, Stockholm, Sweden	Screening for acyl-CoA thioesterase disorders
	Keating, Sinéad	<i>Irish</i>	Leiden University Medical Centre, The Netherlands	University of Wales College of Medicine, Cardiff, UK	Investigation of immune evasion by Epstein-Barr virus
<b>Israel</b>	Minski, Neri	<i>Israeli</i>	National Laboratory CIB, Trieste, Italy	Weizmann Institute of Science, Rehovot, Israel	Pin1-dependent modulation of Mdm2 activity
	Roitman, Vered	<i>Israeli</i>	Charles University, Prague, Czech Republic	Hebrew University, Jerusalem, Israel	Visualization of the recruitment complex and nucleation centre for SV40 assembly
	Sheiner, Lilach	<i>Israeli</i>	University of Bern, Switzerland	Bar Ilan University, Ramat Gan, Israel	The role of the chaperone pathway in protein translocation and processing in <i>Trypanosoma brucei</i>
	Yanai, Itai	<i>Israeli</i>	EMBL, Heidelberg, Germany	Weizmann Institute of Science, Rehovot, Israel	Linkers of functional modules in gene networks
	Zur, Amit	<i>Israeli</i>	London Research Institute, Souths Mimms, UK	Silberman Institute of Life Sciences, Jerusalem, Israel	Identification of novel APC/C substrates
<b>Italy</b>	Asselta, Rosanna	<i>Italian</i>	University of Helsinki, Finland	University of Milan, Italy	Identifying gene variants predisposing to multiple sclerosis
	Cubellis, Maria Vittoria	<i>Italian</i>	University of Cambridge, UK	University Federico II, Naples, Italy	Analysis of polyproline helices as potential sites for protein-protein interactions
	De Bonis, Maria Luigia	<i>Italian</i>	University of Edinburgh, UK	Institute of Genetics and Biophysics: A. Buzzati-Traverso', Naples, Italy	The role of methyl binding proteins in neuronal differentiation

<b>name</b>	<b>nationality</b>	<b>guest laboratory</b>	<b>home laboratory</b>	<b>research interest</b>	<b>country</b>
De Cesare, Dario	<i>Italian</i>	CNRS-INSERM-ULP, Illkirch, France	Institute for Genetics and Biophysics, Naples, Italy	Role of the Activator of CREM in Testis (ACT) during spermatogenesis: analysis of the ACT null mouse phenotype	
de Turris, Valeria	<i>Italian</i>	IGCMB, Illkirch, France	University of Rome 'La Sapienza', Rome, Italy	RNA factory: identification and characterization of trans-acting factors that commit to a specific transcript of different processing pathways	
Giadrossi, Sara	<i>Italian</i>	Pasteur Institute, Paris, France	International Centre for Genetic Engineering and Biotechnology, Trieste, Italy	Identification of novel origins of DNA replication by molecular combing/fish and nascent DNA mapping	
Liguori, Giovanna Lucia	<i>Italian</i>	Institute of Neurosciences, Alicante, Spain	Institute of Genetics and Biophysics, 'A. Buzzati-Traverso', Naples, Italy	Functional analysis of the inductive abilities and responsiveness of neural cells in Cripto embryos	
Marchini, Antonio	<i>Italian</i>	Leiden University Medical Centre, The Netherlands	University of Heidelberg, Germany	Development of a model for human chondrocyte differentiation using mesenchymal stem cells to investigate SHOX cellular functions	
Marigo, Valeria	<i>Italian</i>	University of Toronto, Canada	Telethon Institute of Genetics and Medicine, Naples, Italy	Retinal stem cell dissection and culture	
Minchiotti, Gabriella	<i>Italian</i>	University of Leuven, Belgium	Institute of Genetics and Biophysics: 'A. Buzzati-Traverso', Naples, Italy	<i>In vivo</i> analysis of Cripto function in cardiomyogenesis	
Monti, Maria	<i>Italian</i>	University of Utrecht, The Netherlands	University of Naples, Italy	Development of a proteomic strategy to identify membrane proteins	
Nitsch, Roberto	<i>Italian</i>	EMBL, Heidelberg, Germany	University of Naples 'Federico II', Naples, Italy	Identification of Pax8 thyroid-specific interactors and relevance of <i>cAMP</i> regulation	
Reconditi, Massimo	<i>Italian</i>	Kings College London, UK	University of Florence, Italy	A 3D model for muscle contraction	
Riccio, Andrea	<i>Italian</i>	The Babraham Institute, Cambridge, UK	University of Naples, Caserta, Italy	A 800 kb YAC transgene for the analysis of genomics imprinting of the Beckwith-Wiedeman syndrome region in the mouse	
Sensi, Elisabetta	<i>Italian</i>	University of Vienna, Austria	University of Siena, Italy	Evaluation of different natural STSy promoters isolated from <i>V. vinifera</i> populations by transient expression assay	
Tonini, Raffaella	<i>Italian</i>	University College, London, UK	University 'La Sapienza', Rome, Italy	Ca <sup>2+</sup> dynamics and activation of Ca <sup>2+</sup> -dependent K <sup>+</sup> currents in cortical neurons	
Venturin, Marco	<i>Italian</i>	EMBL, Heidelberg, Germany	University of Milan, Italy	Identification of candidate genes for mental retardation and cardiac anomalies in patients with NF1 microdeletion syndrome by bioinformatic tools	

country	name	nationality	guest laboratory	home laboratory	research interest
	Vocca, Immacolata	<i>Italian</i>	University of London, UK	IGB-CNR, Naples, Italy	Testing urokinase-derived inhibitors of leucocyte migration in ocular inflammation, transplantation and allergy
<b>Norway</b>	Bakke, Oddmund	<i>Norwegian</i>	EMBL, Heidelberg, Germany	University of Oslo, Norway	Invariant chain and its modification of the endosomal pathway
<b>Polish</b>	Dutkiewicz, Rafal	<i>Polish</i>	University of Marburg, Germany	University of Gdansk, Poland	Molecular functions of the Ssq1/Jac1 chaperone system in biogenesis of the iron-sulphur cluster
	Magiera, Maria Magdalena	<i>Polish</i>	Samuel Lunenfeld Research Institute, Ontario, Canada	CNRS, Montpellier, France	Identification of factors preserving the order between S and M phases in unperturbed budding yeast cells
	Szolajska, Ewa	<i>Polish</i>	Institute of Structural Biology, Grenoble, France	Polish Academy of Sciences, Warsaw, Poland	Involvement of two novel proteins in adenovirus endocytosis
	Ziemienowicz, Alicja	<i>Polish</i>	Friedrich Miescher Institute, Basel, Switzerland	Jagiellonian University, Krakow, Poland	Plant proteins interacting with VirD2
<b>Portugal</b>	de Oliveira Neves, Helia Cristina	<i>Portuguese</i>	Erasmus University, Rotterdam, The Netherlands	Institute for Molecular Medicine, Lisbon, Portugal	Differential Role of NOTCH ligands DELTA-1 and JAGGED-1 in human haematopoietic progenitor cell differentiation
	Lopes Verissimo, Fatima	<i>Portuguese</i>	EMBL, Heidelberg, Germany	Saude National Institute: 'Dr. R. Jorge', Lisbon, Portugal	The role of the novel subfamily of WNK protein kinases in vesicle trafficking
	Monteiro Marques da Silva, Raquel	<i>Portuguese</i>	University Medical Centre Utrecht, The Netherlands	University of Aveiro, Portugal	Transcriptional profile of <i>Saccharomyces cerevisiae</i> cells expressing genetic code ambiguity
	Zilha, Rita	<i>Portuguese</i>	University Federico II, Naples, Italy	Institute for Chemical and Biological Technology, Oeiras, Portugal	On the mechanism of assembly of <i>Bacillus subtilis</i> spore coat protein CotB
<b>Slovenia</b>	Dogsa, Iztok	<i>Slovenian</i>	Institute of Biophysics and X-ray Structure Research, Graz, Austria	University of Ljubljana, Slovenia	Structural stability of isolated bacterial extracellular polysaccharides and native biofilms measured by small-angle X-ray scattering (SAXS)
	Jenko, Sasa	<i>Slovenian</i>	University of Bremen, Germany	Jozef Stefan Institute, Ljubljana, Slovenia	<i>In vitro</i> degradation studies of thyroglobulin
	Sutak, Robert	<i>Slovenian</i>	Jacques Monod Institute, Paris, France	Charles University, Prague, Czech Republic	Identification of proteins involved in iron homeostasis in <i>Trichomonas vaginalis</i>
<b>Spain</b>	Alsina, Berta	<i>Spanish</i>	Kings College, London, UK	University Pompeu Fabra, Barcelona, Spain	Role of the pax/eya/dach/six gene network in inner ear development
	Alvaro-Blanco, Josu�e	<i>Spanish</i>	Imperial College, London, UK	CSIC, Madrid, Spain	Characterization of the transcriptional autoregulatory system of PacC transcription factor



name	nationality	guest laboratory	home laboratory	research interest	country
Arosa, Fernando	Spanish	University of Debrecen, Hungary	Institute for Molecular and Cell Biology, Porto, Portugal	Characterization of the conformational state of MHC-class I molecules on the plasma membrane of T cells	
Crespo, Jose	Spanish	University of Geneva, Switzerland	University of Seville, Spain	Characterization of state transition mutants in <i>Chlamydomonas</i>	
Cubas, Pilar	Spanish	John Innes Centre, Norwich, UK	National Centre for Biotechnology, Madrid, Spain	Optical projection tomography of <i>Arabidopsis</i> axillary meristems	
Espinosa, Luis	Spanish	Ghent University, Belgium	Oncology Research Institute, Barcelona, Spain	Role of IκB in the repression of NcoR/SMRT-mediated hormone receptor silencing	
Gastaminza Landart, Pablo	Spanish	Mount Sinai School of Medicine, New York, USA	National Centre of Biotechnology, Madrid, Spain	Pathogenesis of influenza virus PB2 polymerase subunit mutants	
Masellach-Castellvi, Francesc Xavier	Spanish	University of Edinburgh, UK	Institut for Molecular Biology, Barcelona, Spain	Analysis of the contribution of the <i>S. pombe</i> multi KH-domain protein Vig to heterochromatin structure and function	
Martinez, Pedro	Spanish	Zoological Institute A Dohrn, Naples, Italy	University of Bergen, Norway	The role of ParaHox genes in echinoderm gut formation	
Mercader, Nadia	Spanish	MPI for Molecular Cellular Biology, Dresden, Germany	National Centre of Biotechnology, Madrid, Spain	Electroporation as a tool to perform gain-of-function of Meis genes during axolotl limb regeneration	
Morenilla Palao, Cruz	Spanish	University of Erlangen-Nürnberg, Erlangen, Germany	University Miguel Hernandez, Eiche, Spain	Molecular mechanisms of TRPV1 sensitization in inflammatory pain	
Pérez Escoda, Maria Teresa	Spanish	University of Nottingham, UK	IIQAB-CSIC, Barcelona, Spain	Synthesis of cyclic peptide-containing sequences belonging to hepatitis G virus (HGV) to develop new diagnostic peptide-based biosensors for serodiagnosis of HGV	
Quintero Ortiz, Marisol	Spanish	The Wolfson Institute for Biomedical Research, London, UK	University of Valencia, Spain	Effects of nitric oxide on cell metabolism and oxygen consumption in human T lymphocytes	
Santamarta Hernandez, Irene	Spanish	John Janes Centre, Norwich, UK	Inbiotec, León, Spain	Obtaining an antibiotic non-producing mutant library of <i>S. clavuligerus</i> by transposon mutagenesis	
Torreira Ontiveros, Eva Maria	Spanish	EMBL, Grenoble, France	National Centre for Biotechnology, Madrid, Spain	Structural analysis of influenza virus polymerase	
Agorio Norström, Astrid	Swedish	Institute of Biology, Leiden, The Netherlands	University of Valencia, Spain	Isolation and characterization of transcription factors involved in H2O2-dependent regulation of the CEV16 gene	<b>Sweden</b>
Messi, Mara	Swiss	MRC Clinical Sciences Centre, London, UK	Institute for Biomedicine, Bellinzona, Switzerland	Nuclear localization of Th1- and Th2-specific genes in human memory T lymphocytes.	<b>Switzerland</b>
de Wit, Norbert	Dutch	University of Utrecht, The Netherlands	University of Warwick, Coventry, UK	Mass spectrometric identification of differentially expressed proteins in human myometrial tissue	<b>The Netherlands</b>

country	name	nationality	guest laboratory	home laboratory	research interest
	Fuhler, Gwenny	<i>Dutch</i>	University of Cambridge, UK	University Hospital Groningen, The Netherlands	Assesment of phosphatidylinositol 3,4,5-triphosphate [PtdIns (3,4,5) P3] mass in neutrophils
	van Baarle, Debbie	<i>Dutch</i>	Royal Free Hospital, London, UK	Sanquin Research at CLB, Amsterdam, The Netherlands	from MDS patients Role of CD4-CD25 regulatory T cells in suppression of Epstein-Barr virus-specific CD4+ and CD8+ T cells
	van den Bremer, Ewald	<i>Dutch</i>	University of York, UK	University of Utrecht, The Netherlands	A detailed determination of DNA cleavage rates of colicin wild-type DNases using different DNA substrates and cofactors
<b>Turkey</b>	Gelegen, Emine Cidgem	<i>Turkish</i>	Rudolf Magnus Institute for Neuroscience, Utrecht, The Netherlands	Institute of Psychiatry, London, UK	Analysis of strain differences and diet on susceptibility to activity-based anorexia in mice
<b>United Kingdom</b>	Hornby, David	<i>British</i>	Biocenter, University Basel, Switzerland	University of Sheffield, UK	Intracellular dynamics of modified cytosine restriction
	Johnson, Matt	<i>British</i>	Institut Pasteur, Paris, France	University of Sheffield, UK	Investigation of a cluster of genes involved in the production of the exoporum layer of the <i>Bacillus anthracis</i> endospore
	Lane, David	<i>British/ New Zealander</i>	University of Southern Denmark, Odense, Denmark	Laboratory of Molecular Genetics and Microbiology, IEG, Toulouse, France	Localization of the partition ATPase, SopA
	Leach, David	<i>British</i>	French Institute for Agronomy Research, Jouy en Josas, France	University of Edinburgh, UK	The formation double-strand breaks at mis-folded DNA sequences <i>in vivo</i>
	Thomas, David	<i>British</i>	Consorzio Mario Negri Sud, Santa Maria Imbaro (Chieti), Italy	University of Birmingham, UK	The feasibility of applying advanced mathematical and computational methods to models of the Golgi complex
	Maytum, Robin	<i>British</i>	MPI for Biophysical Chemistry, Göttingen, Germany	University of Kent, Canterbury, UK	<i>In vivo</i> complementation of tropomyosin knockouts in <i>S. cerevisiae</i> and development of an acetylated tropomyosin expression system in <i>E. coli</i>
<b>other nationalities</b>	Stoilov, Lubomir	<i>Bulgarian</i>	University of Essen, Germany	Bulgarian Academy of Sciences, Sofia, Bulgaria	SCE induction in eukaryotic cells: role of initial damage and repair
	Cheng, Jianping	<i>Chinese</i>	IPK, Gatersleben, Germany	Institute of Evolution, Haifa, Israel	Identification of new SSR markers linked to the stripe rust resistance gene YrH52 on chromosome 1BS of wheat
	Diaz-Solares, Maykelis	<i>Cuban</i>	John Innes Centre, Norwich, UK	University of Barcelona, Spain	Characterization of transgenic plants with modified levels of glutathione-dependent formaldehyde dehydrogenase in relation to their disease resistance phenotypes

<b>name</b>	<b>nationality</b>	<b>guest laboratory</b>	<b>home laboratory</b>	<b>research interest</b>	<b>country</b>
Rajendran, Lawrence	<i>Indian</i>	Pasteur Institute, Paris, France	University of Konstanz, Germany	Role of lipid microdomain-associated flotillins in the endocytosis of interleukin-2 receptors	
Rajan, Anand	<i>Indian</i>	University of Dundee, UK	Max Delbrück Center for Molecular Medicine, Berlin-Buch, Germany	Study the role of human ORC in replication initiation using the <i>Xenopus in vitro</i> replication system	
Al-Otaibi, Hani	<i>Jordanian</i>	Zoological Institute A Dohrn, Naples, Italy	Bilkent University, Ankara, Turkey	Transcriptional control of the Na/I symporter gene	
Kohl, Linda	<i>Luxembourg</i>	Imperial College, London, UK	National Museum of Natural History, Paris, France	Cell mobility and endocytosis in trypanosomes	
Baule, Claudia	<i>Mozambican</i>	Institute of Medical Microbiology, Leiden, The Netherlands	The National Veterinary Institute, Uppsala, Sweden	Molecular determinants of virulence and attenuation in equine arteritis virus	
Drew, David	<i>New Zealander</i>	MRC Dunn, Cambridge, UK	University of Stockholm, Sweden	Getting a grip on membrane proteins	
Pop, Ovidiu	<i>Romanian</i>	Groningen Biomolecular Science and Biotechnology Institute, Haren, The Netherlands	Institute for Molecular Biology, Jena, Germany	Analysis of the processing of Tat-dependent substrates by <i>Bacillus subtilis</i> signal peptidases	
Belyakin, Stephen	<i>Russian</i>	EMBL, Heidelberg, Germany	Institute of Cytology and Genetics, Novosibirsk, Russia	Genetic content and features of late replicated regions in <i>Drosophila</i> polytene chromosomes: a microarray approach	
Malygin, Alexey	<i>Russian</i>	University of Leicester, UK	Novosibirsk Institute of Bioorganic Chemistry, Novosibirsk, Russia	Nuclear factors that are involved in restoration of SMN pre-mRNA exon 7 splicing by an antisense oligonucleotide containing a splicing enhancer motif	
Piskareva, Olga	<i>Russian</i>	National Institute of Cellular Biotechnology, Dublin, Ireland	Russian Academy of Sciences, Moscow, Russia	Transposon cycle of the human L1 element	

number and percentage of short- term fellowship applications and awards from 1998 – 2003	country from	applications	% of total	awards	% of total
	Austria	8	0,63	5	0,67
Belgium	23	1,80	15	2,01	
Croatia	12	0,94	9	1,21	
Czech Republic	32	2,50	19	2,55	
Denmark	16	1,25	10	1,34	
Finland	9	0,70	8	1,07	
France	111	8,69	67	8,99	
Germany	95	7,43	52	6,98	
Greece	52	4,07	30	4,03	
Hungary	30	2,35	18	2,42	
Iceland	3	0,23	2	0,27	
Ireland	14	1,10	7	0,94	
Israel	57	4,46	42	5,64	
Italy	194	15,18	109	14,63	
Netherlands	33	2,58	22	2,95	
Norway	7	0,55	5	0,67	
Poland*	35	2,74	14	1,88	
Portugal	25	1,96	15	2,01	
Slovenia	13	1,02	8	1,07	
Spain	198	15,49	122	16,38	
Sweden	22	1,72	15	2,01	
Switzerland	12	0,94	3	0,40	
Turkey	29	2,27	9	1,21	
United Kingdom	53	4,15	32	4,30	
East Europe	124	9,70	62	8,32	
Others	71	5,56	45	6,04	
<b>total</b>	<b>1278</b>	<b>100</b>	<b>745</b>	<b>100</b>	

\* not member for the full-time period

year	applications	awards	%
2003	289	138	(48%)
2002	252	170	(67%)
2001	233	124	(53%)
2000	274	176	(64%)
1999	230	138	(60%)
1998	279	143	(51%)
1997	339	188	(55%)
1996	316	180	(57%)
1995	325	187	(57%)
1994	369	203	(55%)
1993	376	209	(55%)
1992	351	213	(61%)
1991	344	194	(56%)
1990	346	211	(61%)
1989	331	199	(60%)
1988	351	211	(60%)
1987	301	212	(70%)
1986	309	215	(70%)
1985	304	221	(73%)
1984	320	226	(71%)
1983	335	223	(67%)
1982	321	213	(66%)
1981	339	235	(69%)
1980	357	242	(68%)
1979	344	243	(71%)

**short-term  
fellowships pattern  
of applications and  
awards 1979 – 2003**

## applications

to	from	Austria	Belgium	Croatia	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	others	total
Austria					1										1										1		6	
Belgium								1	1			1	2	1	1						1						8	
Croatia																											0	
Czech Rep.													2														2	
Denmark							1																				1	
Finland									1						1										1		3	
France		2	1	2	2			3	3	3					5		3			4	1		2	5	2		38	
Germany	1	1				1	1	1						4	3	3		2	2	2	2	2		1	1	3	1	34
Greece							1	1																		1	3	
Hungary																			1								1	
Iceland																											0	
Ireland																									1		1	
Israel																1											1	
Italy								2	1			1	1				1	1	1		1			1	1		11	
Netherlands		1	2					5	3	2					2				3	1	2	2			4	1	28	
Norway							2	1																			3	
Poland																											0	
Portugal			1				1								1												3	
Slovenia																											0	
Spain			1			1									4										1	1	8	
Sweden		1	1				2	2							3									1	1		11	
Switzerland				1			6				1	1	4	1			2	1		2	1			1	1		22	
Turkey																											0	
UK	1		3	1	2	7	4	5				1	14	4			2			16	1	3			4	1	69	
EMBL							4	1	2	2			1	2			1		1			1			1	2	18	
East Europe																											0	
others							4	1	2					3			1		4	1		1	1				18	
<b>total</b>		<b>2</b>	<b>5</b>	<b>3</b>	<b>9</b>	<b>6</b>	<b>35</b>	<b>20</b>	<b>17</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>12</b>	<b>44</b>	<b>10</b>	<b>2</b>	<b>11</b>	<b>7</b>	<b>4</b>	<b>39</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>16</b>	<b>16</b>	<b>5</b>	<b>289</b>	

awards

to	from	Austria	Belgium	Croatia	Cyprus	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	USA/Can	others	total
Austria												1				1			1			1					2	6		
Belgium																													0	
Croatia																													0	
Cyprus																													0	
Czech Rep.																						1							1	
Denmark								1																					1	
Finland																													0	
France							1	4	3	1		1			1	1			2		5		1			1	2	23		
Germany	3						1	1	5	1					1	1					2		3		1		5	24		
Greece																													0	
Hungary																													0	
Iceland																													0	
Ireland																													0	
Israel																													0	
Italy								2								2										1		5		
Netherlands									1							1						1							3	
Norway																			1										1	
Poland																													0	
Portugal																				1									1	
Slovenia																													0	
Spain						1			2													1							4	
Sweden																1													1	
Switzerland		1			1		2	1	1											1					2		1	10		
Turkey																						1							0	
UK		1			1		8	6	3						1	3		2	2		6	1	1			3	2	40		
EMBL							1	1				1	1	1								1					1	1	8	
East Europe																													0	
USA/Can		1			1		6	7						4	4	3					5	2	1		2			36		
others																													0	
total		4	2	0	0	2	2	2	25	26	3	4	0	2	5	11	10	0	4	6	0	22	4	6	0	4	2	5	13	164

full name	nationality	topic(s)	institute
Allain, Frederic	French	Protein-RNA complexes	ETH Hönggerberg, Zürich, Switzerland
Beja, Oded	Israeli	Microbial genomics	Technion, Haifa, Israel
Cosma, Maria Pia	Italian	Chromatin remodelling	TIGEM, Naples, Italy
Hassan, Bassem	Lebanese	Neuronal development	VIB, Leuven, Belgium
Haucke, Volker	German	Membrane traffic at synapses	Göttingen University, Germany
Jensen, Torben Heick	Danish	Biogenesis of mRNP in yeast	Århus University, Denmark
Lecuit, Thomas	French	Epithelial junctions	IBDM, Marseille, France
Malnasi Csizmadia, Andras *	Hungarian	Myosin kinetics	Eötvös Loránd University, Budapest, Hungary
Manzanares, Miguel	Spanish	Placenta development	Universidad Autónoma, Madrid, Spain
Marin, Oscar	Spanish	Cell migration in the forebrain	University Miguel Hernandez, Alicante, Spain
Meier, Pascal	Swiss	Regulation of apoptosis	The Institute of Cancer Research, London, UK
Mota, Maria	Portuguese	Host-pathogen Interactions in malaria	Gulbenkian Institute, Oeiras, Portugal
Nichols, Benjamin	British	Organisation of the plasma membrane	MRC-LMB, Cambridge, UK
Otzen, Daniel	Danish	Folding and stability of membrane proteins	Aalborg University, Denmark
Owen, David	British	Vesicle formation	WT/MRC, Cambridge University, UK
Philpott, Dana	British	Innate immunity	Institut Pasteur, Paris, France
Robinson, Robert	British	Structural biology of cell movement	Uppsala University, Sweden
Salecker, Iris	German	Axon guidance	NIMR, London, UK
Schwappach, Blanche	German	Ion channel proteins	ZMBH, Heidelberg, Germany
Teichmann, Sarah	German/American	Computational genomics	MRC-LMB, Cambridge, UK
Ulrich, Helle	German	DNA repair and ubiquitination	MPI for Terrestrial Microbiology, Marburg, Germany

\* EMBO/HHMI Young Investigator

#### EMBO/HHMI scientists selected in 2003

Bartunek, Petr	Czech	Hematopoietic Stem Cell Differentiation	Institute of Molecular Genetics, Prague, Czech Republic
Damborsky, Jiri	Czech	Enzymatic Catalysis of Dehalogenases	Masaryk University, Brno, Czech Republic
Mihaly, Jozsef	Hungarian	Cell Polarity	Institute of Genetics, Szeged, Hungary



**A** Adams, Ralf  
Alon, Uri  
Antonny, Bruno  
Arber, Silvia  
Arkowitz, Robert  
Arribas, Joaquin  
Ashe, Hilary  
Averof, Michalis

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**B** Barkai, Naama  
Barr, Francis  
Barral, Yves  
Berger, Frederic  
Bertrand, Edouard  
Blazquez, Miguel  
Briscoe, James  
Bujnicki, Janusz

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**C** Casares, Fernando  
Christoforidis, Savvas  
Collinson, Ian  
Conradt, Barbara  
Cramer, Patrick  
Currie, Peter

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**D** Davis, Daniel  
de Gier, Jan-Willem  
Delledonne, Massimo  
Dessen, Andrea  
Dickson, Barry  
Dominguez, Maria  
Donaldson, Anne

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**F** Fankhauser, Christian  
Fernandez-Chacon, Rafael

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**G** Glotzer, Michael  
Gönczy, Pierre  
Gonzalez-Reyes, Acaimo

**H** Hajnal, Alex  
Helariutta, Ykä  
Helms, Volkhard  
Hidalgo, Alicia  
Hirst, Judy  
Holstege, Frank  
Hopfner, Karl-Peter

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**J** Jansen, Ralf

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**A** Khakh, Baljit  
Knoblich, Jürgen  
Konieczny, Igor  
Kunji, Edmund

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**L** Lappalainen, Pekka  
Lemaitre, Bruno  
Logan, Malcolm  
Löwe, Jan  
Lygerou, Zoi

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**M** Mansuy, Isabelle  
Martin-Bermudo, Maria Dolores  
Mattevi, Andrea  
Mehlen, Patrick  
Mosialos, George  
Musacchio, Andrea

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**N** Nagy, Laszlo  
Nehrbass, Ulf  
Neuhauss, Stephan  
Nissen, Poul  
Noselli, Stephane

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**O** Owen-Hughes, Tom

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**P** Palková, Zdena  
Pellizzoni, Livio  
Peracchi, Alessio  
Perrakis, Anastassis  
Peters, Jan-Michael  
Pierre, Philippe  
Posas, Francesc

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**R** Rädtker, Freddy  
Reich, Ziv  
Rodriguez, Ivan

**S** Santos, Manuel  
Saudou, Frédéric  
Schärer, Orlando D.  
Schedl, Andreas  
Schleper, Christa  
Schlötterer, Christian  
Schneitz, Kay  
Spang, Anne  
Stock, Daniela  
Suomalainen-Wartiovaara, Anu  
Szabó, Ildikó

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**T** Tamagnone, Luca  
Tanaka, Tomoyuki  
Tavernarakis, Nektarios  
Telford, Maximilian  
Therond, Pascal  
Trouche, Didier  
Trumpp, Andreas  
Tuschl, Thomas

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**U** Uhlmann, Frank  
Ungermann, Christian

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**v** van Aalten, Daan  
Van den Ackerveken, Guido  
van der Goot, Gisou  
van Steensel, Bas  
Vinkemeier, Uwe

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**W** Wimmer, Ernst A.

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**Z** Zernicka-Goetz, Magdalena

**EMBO young  
investigators selected  
in 2000 – 2002**

breakdown of young investigator applicants	country	2000		2001		2002		2003	
		no of app	selected	no of app	selected	no of app	selected	no of app	selected
Austria	9	5	3	0	1	0	0	0	
Belgium	8	0	2	0	3	0	2	1	
Croatia	2	0	1	0	0	0	0	0	
Czech Republic	2	0	0	1	6	0	14	0	
Denmark	5	1	0	0	0	0	2	2	
Finland	9	2	1	0	4	1	3	0	
France	72	5	17	4	26	4	26	2	
Germany	52	7	22	4	17	4	15	3	
Greece	8	2	1	2	4	1	3	0	
Hungary	2	1	1	0	6	0	7	1	
Iceland	0	0	0	0	0	0	1	0	
Ireland	6	0	3	0	0	0	0	0	
Israel	13	2	7	1	4	0	5	1	
Italy	22	1	6	3	14	3	11	1	
Netherlands	10	2	6	2	3	0	4	0	
Norway	2	0	1	0	1	0	1	0	
Poland	13	1	2	0	8	1	6	0	
Portugal	9	1	6	1	2	0	2	1	
Slovenia	3	0	0	0	0	0	0	0	
Spain	40	4	26	1	18	2	26	2	
Sweden	23	1	3	0	15	0	7	1	
Switzerland	21	6	11	3	12	3	5	1	
Turkey	8	0	1	0	2	0	2	0	
United Kingdom	75	14	30	1	23	4	21	5	
Cyprus	1	0	0	0	0	0	0	0	
<b>total</b>	<b>415</b>	<b>55</b>	<b>150</b>	<b>23</b>	<b>169</b>	<b>23</b>	<b>163</b>	<b>21</b>	
female	94	13	44	4	45	4	47	7	
male	321	42	106	19	124	19	116	14	
<b>total</b>	<b>415</b>	<b>55</b>	<b>150</b>	<b>23</b>	<b>169</b>	<b>23</b>	<b>163</b>	<b>21</b>	

**average**

	average	
age	34.6	<b>EMBO young investigator 2003 general statistics (years selected 2000, 2001, 2002)</b>
postdoctoral years	5	
total number of publications	20.2	
last author	3	
first author	9	

**no.      percentage**

	no.	percentage	
USA	71	68.9	<b>pre- and/or post doctorate was spent in/at</b>
EMBL	17	28.3	
MRC LMB	10	9.9	
MRC (all institutes)	12	11.9	
MPI (all institutes)	11	10.5	

postdoctoral fellowships were received from the following international agencies

**no.      percentage**

	no.	percentage	
EMBO	31	30.7	<b>pre- and/or post doctorate was spent in/at</b>
HFSP	21	20.7	
EU TMR	10	9.9	

## participation of women in EMBO activities

EMBO memberships	total number of members	% women	year
	1162	13,3	2003

EMBO courses & workshops in 2003	% female participants	% female speakers
practical courses	49	22
workshops	41	24
lecture courses	48	13

EMBO long-term fellowships (statistics for 2003)	applications	awarded	success rate
female applicants	469 (43,4%)	64 (36,4%)	13,6 %
male applicants	611 (56,6%)	112 (63,6%)	18,3 %

	<b>applications</b>	<b>awarded</b>	<b>success rate</b>	
female applicants	139 (53,7%)	72 (52,2%)	51,8 %	<b>EMBO short-term fellowships (statistics for 2003)</b>
male applicants	120 (46,3%)	66 (47,8%)	55,0 %	

	<b>applications</b>	<b>awarded</b>	<b>success rate</b>	
female applicants	230 (25,6%)	28 (22,9%)	12,2 %	<b>EMBO young investigators 2000 – 2003 general statistics</b>
male applicants	667 (74,4%)	94 (77,1%)	14,1 %	
<b>total</b>	897 (100%)	122 (13,6%)	13,6 %	

	<b>applications</b>	<b>awarded</b>	<b>success rate</b>	
female applicants	47 (28,8%)	7 (33,3%)	14,8 %	<b>EMBO young investigators (statistics for 2003)</b>
male applicants	116 (71,2%)	14 (66,7%)	12,1 %	
<b>total</b>	163 (100%)	21 (12,9%)	12,9 %	

<b>practical courses 2003</b>	Serial analysis of gene expression	F. Baas <i>et al.</i>	NL – Amsterdam	January 19 – 26
	Functional genomics: transcription analysis, data mining and bioinformatics to investigate biological complexity	P. Ricciardi-Castagnoli, C. Vizzardelli	I – Milan	February 10 – 15
	Analysis and informatics of microarray data	A. Brazma <i>et al.</i>	UK – Hinxton, Cambridge	March 16 – 22
	Plant development: molecular and cellular basis	J. A. Feijó, M. Oliveira	P – Oeiras	March 31 – April 16
	Bioinformatics	J. McInerney <i>et al.</i>	IRL – Maynooth	April 28 – May 3
	Microinjection and detection of probes in cells	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	May 25 – 30
	Microarray technology: from genome to proteome	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	May 31 – June 7
	BioXAS on metalloproteins and organism tissue	W. Meyer-Klaucke, S. Mangani	D – Hamburg (EMBL)	June 17 – 22
	Strategies in macromolecular structure determination at 3rd generation synchrotron sources	R. Ravelli, W. Shepard <i>et al.</i>	F – Grenoble (EMBL)	June 17 – 25
	Electron microscopy and stereology in molecular biology of cells and tissues (Joint EU/EMBO course)	J. Nebesarova <i>et al.</i>	CZ – Ceske Budejovice	July 3 – 12
	Cytometry and cell sorting for functional genomics and proteomics	A. Radbruch <i>et al.</i>	D – Berlin	July 7 – 11
	Mouse transgenics and behaviour	D. P. Wolfer <i>et al.</i>	CH – Zürich	July 7 – 19
	Prion biology and biochemistry <i>in vivo</i> and <i>in vitro</i>	A. Aguzzi <i>et al.</i>	CH – Zürich	August 2 – 7

Developmental genetics: Arabidopsis, <i>C. elegans</i> , Drosophila, zebrafish	C. Nüsslein-Volhard <i>et al.</i>	D – Tübingen	August 25 – September 6
Mouse genome engineering by site-specific recombinases	W. Müller, F. Stewart <i>et al.</i>	D – Braunschweig	September 1 – 10
Structure determination of biological macromolecules by solution NMR	M. Sattler <i>et al.</i>	D – Heidelberg (EMBL)	September 10 – 17
Image processing for cryo- electron microscopy	H. Saibil <i>et al.</i>	UK – London	September 10 – 17
Deciphering chromosomes by chromatin immunoprecipitation	V. Orlando, T. Grange	I – Naples	September 18 – 28
Modern methods in cell biology	M. Knop, G. Griffiths	D – Heidelberg (EMBL)	September 24 – October 4
Advanced molecular and immuno cytogenetics on chromosomes and nuclei in plants	P. F. Fransz, J.H. de Jong	NL – Wageningen	October 13 – 20

Protein folding and misfolding	M. Brunori <i>et al.</i>	I – Rome	April 3 – 5
New developments in genomics for biomedicine	F. Gubensek <i>et al.</i>	SL – Kranj	April 9 – 13
Cellular and molecular biology of membranes	J.A.F Op den Kamp <i>et al.</i>	F – Cargèse, Corsica	June 9 – 21
Molecular mechanisms in signal transduction	J. L. Bos <i>et al.</i>	GR – Spetses	August 19 – 29
Mechanisms in homeostasis and disease	P. Herrlich <i>et al.</i>	GR – Spetses	August 29 – September 8

### lecture courses 2003

<b>workshops 2003</b>	Non coding RNAs: their role in translation and gene regulation (Joint CNRS Jacques Monod/EMBO workshop)	T. Hohn, P. Romby	F – Aussois	January 14 – 19
	Chromosome replication to cell division: 40 years anniversary of replicon theory	S. D. Ehrlich <i>et al.</i>	F – Villefranche-sur-Mer	January 18 – 22
	Molecular genetics and biophysical aspects of photosynthesis	J.-D. Rochaix <i>et al.</i>	CH – Les Diablerets	January 26 – 29
	Deuterium labelling techniques for bio-molecular NMR and neutron scattering	D. Myles <i>et al.</i>	F – Grenoble	January 29 – 31
	Extracellular proteases and their inhibitors in development, plasticity, and pathology of the nervous system	D. Monard <i>et al.</i>	CH – Ascona	March 23 – 28
	Molecular and genetic basis of autoimmune diseases: SLE and RA (Joint Juan March/Gulbenkian/EMBO workshop)	A. Coutinho <i>et al.</i>	P – Lisbon	April 7 – 9
	Mechanisms of cell migration	P. Rørth <i>et al.</i>	D – Heidelberg (EMBL)	May 2 – 5
	Pattern recognition proteins and receptors (Joint Serono Foundation/EMBO workshop)	K. Söderhäll <i>et al.</i>	CZ – Trest	May 14 – 18
	Microdomains, lipid rafts and caveolae (Joint EURESCO/EMBO workshop)	G. van Meer <i>et al.</i>	P – Tomar	May 17 – 22
	Pathogenesis of amoebiasis: from genomics to disease	N. Guillén <i>et al.</i>	F – Paris	May 19 – 21
	Genomic approaches in plant virology	E. Balázs <i>et al.</i>	H – Keszthely	May 28 – 31
	Semaphorin function and mechanisms of action: a decade of semaphorin research	A. Chédotal <i>et al.</i>	F – Cargèse, Corsica	June 3 – 7



Advanced light microscopy: 3rd meeting of the European light microscopy initiative (ELMI)	S. Castel <i>et al.</i>	E – Barcelona	June 11 – 13
Boundaries in development: 30 years of progress (Joint Serono Foundation/ EMBO workshop)	S. Cohen, J. Modolell, D. Wilkinson	D – Heidelberg (EMBL)	June 14 – 17
Liver development, gene regulation and disease	I. Talianidis <i>et al.</i>	GR – Heraklion, Crete	June 14 – 19
Biological implications of macromolecular crowding	G. Rivas <i>et al.</i>	E – Avila	June 14 – 18
Chromatin and epigenetics (In memory of Alan Wolffe)	G. Almouzni <i>et al.</i>	D – Heidelberg (EMBL)	June 19 – 22
Molecular and population biology of mosquitoes	K. Louis, F. Kafatos	GR – Kolymbari, Crete	August 13 – 19
Membrane dynamics in endocytosis: EuroConference on mechanisms of transport and cell signalling (Joint EURESCO/EMBO workshop)	M. Zerial, M. S. Robinson	I – Acquafredda di Maratea (Naples)	September 13 – 18
Meiosis	F. Klein <i>et al.</i>	A – Obertraun	September 13 – 18
Frontiers in cytoskeleton research	M. Gimona, J. V. Small	A – Gosau	September 13 – 18
The assembly of neural circuits	B. Dickson <i>et al.</i>	I – Varenna	September 25 – 28
Mechanisms of nuclear transport	E. Hurt, V. Doye	I – Taormina, Sicily	November 1 – 5

Biology of nuclear receptors	A. Maggi <i>et al.</i>	F-Villefranche-sur-Mer	June 4 – 7
Protein phosphatases	J. Ariño, D. Alexander	E-Barcelona	June 29 – 3 July

**conferences 2004**

<b>World Programme plenary lectures 2003</b>	Miro Radman	New horizons in molecular sciences and systems: an integrated approach	Okinawa, Japan	October 16 – 18
	Lothar Willmitzer	Buenos Aires plant biology lectures series 2003	Buenos Aires, Argentina	October 27 – 29
	Frank Gannon	6 <sup>th</sup> A-IMBN conference on Dramatic movement of life sciences: now and future	Tokyo, Japan	November 12 – 13
	Robert Huber	Medical applications of biotechnology	Havana, Cuba	November 23 – 28

<b>World Programme fellows 2003</b>	<b>name</b>	<b>home country</b>	<b>guest laboratory</b>	<b>home laboratory</b>
	Rachid Akbergenov	Kazakhstan	Friedrich Miescher Institute, Basel, Switzerland	Institute of Molecular Biology and Biochemistry, Almaty, Kazakhstan
	Tangirala Sudhakar Johnson	India	Leiden University, Leiden, The Netherlands	Dabur Research Foundation, Ghaziabad, India
	Ashraf Khalil	Egypt	Lund University, Lund, Sweden	Mubarak City for Science, Alexandria, Egypt
	Yi Lu	China	University of Pavia, Pavia, Italy	Chinese Academy of Sciences, Shanghai, China
	Gabriela Montero-Moran	Mexico	Université de Paris-Sud, Orsay, France	Autonomous National University of Mexico, Mexico
	Maria Sanchez-Jimenez	Mexico	Autonomous University of Madrid, Madrid, Spain	Autonomous National University of Mexico, Mexico
	Sheng Xia	China	Karolinska Institute, Stockholm, Sweden	Huazhong University of Science and Technology, Wuhan, China

				<b>World Programme activities 2003</b>
Fluorescent tags, single molecule detection, and advanced microscopy in cell biology	R. Rivera Pomar <i>et al.</i>	Santiago de Chile, Chile	January 19 – 28	
Investigation of live specimens by modern optical methods (Joint IBE/EMBO course)	E. Stelzer <i>et al.</i>	Singapore	31 March – 11 April	
Imaging biological function in cells and organisms	P. Bastiaens <i>et al.</i>	Ribeirao Preto, Brazil	May 4 – 12	
Modern approaches on the principles and applications of cell sorting and flow cytometry (Joint ICRO/UNESCO/EMBO course)	M. Drets <i>et al.</i>	Montevideo, Uruguay	May 14 – 24	
Cellular microbiology	W. Hennig, Y. Wen	Shanghai, China	August 12 – 22	
Biotechnological tools in plant improvement (Joint ICRO/UNESCO/EMBO course)	N. M. Ramaswamy	Tiruchengode, India	September 7 – 21	
Integrated molecular diagnostics of tick-borne pathogens	F. Jongejan <i>et al.</i>	Pretoria, South Africa	October 27 – November 7	
Data mining and analysis of genome sequence data	G. Orjeda <i>et al.</i>	Lima, Peru	November 3 – 16	

- **Life Sciences in the European Research Council**  
→ **The Scientists' Opinion Meeting on 19 February 2003 in Paris**  
Heidelberg, January 24, 2003
- **EMBO and Chinese Academy of Sciences join efforts in the area of the life sciences**  
Heidelberg, January 28, 2003
- **EMBO to coordinate EU funded project to support science teachers**  
Heidelberg, February 6, 2003
- **EMBO reviewed French Life Science Programme**  
Heidelberg, March 24, 2003
- **Scientists find the pathological prion protein in skeletal muscles of hamster with scrapie** (EMBO reports)  
Berlin, April 10, 2003
- **La crème de la crème of young European researchers**  
→ **EMBO publishes catalogue on EMBO young investigators**  
Heidelberg, April 14, 2003
- **EMBO awards communicative scientist 5000 Euros**  
Heidelberg, May 16, 2003
- **Teachers in the lab**  
→ **Second EMBO international practical workshop for science teachers, 24 – 25 May, 2003**  
Heidelberg, May 20, 2003
- **Lehrer drückten am Wochenende in Heidelberg die Schulbank**  
→ **Zweiter internationaler EMBO-Workshop für Biologielehrer stieß auf reges Interesse**  
Heidelberg, 27. Mai 2003

- **Teachers get a taste of their own medicine in Heidelberg at the weekend**  
→ **Enthusiastic feedback on second EMBO International Workshop for Biology Teachers**  
Heidelberg, May 27, 2003
- **First steps to EMBO research awards agreed by the EMBC**  
Heidelberg, July 1, 2003
- **Belmonte Science Center trains high school teachers in latest scientific methods**  
Jerusalem, July 18, 2003
- **Molekulare Maschinen und winzige Motoren**  
→ **Tony Hyman erhält EMBO Gold Medaille 2003 für Forschungsarbeiten zu Zelltransport und Zellteilung**  
Dresden/Heidelberg, 31. Juli 2003
- **Molecular machines and tiny engines**  
→ **Anthony Hyman receives EMBO Gold Medal 2003 – his research into cell transport and cell division**  
Dresden/Heidelberg, July 31, 2003
- **EMBO Gold Medaille 2003 geht an Anthony Hyman vom MPI-CBG, Dresden**  
Heidelberg, 31. Juli 2003
- **Anthony Hyman receives EMBO Gold Medal 2003**  
Heidelberg, July 31, 2003
- **Konferenz zu Wissenschaft und Gesellschaft 'Veranlagung, Bestimmung und Selbstbestimmung': Einladung zum Presselunch**  
Heidelberg, 4. November 2003
- **Science & Society Conference 2003: Invitation to press lunch**  
→ **The European Molecular Biology Organization (EMBO) invites journalists to attend a press lunch accompanying this year's EMBO/EMBL Science and Society Conference on Genetics, Determinism and Human Freedom.**  
Heidelberg, November 11, 2003
- **EMBO Award for Communication in the Life Sciences 2003 goes to Hungarian scientist**  
Heidelberg, November 11, 2003

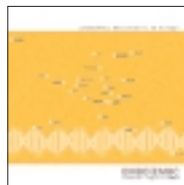
### EMBO young investigator 2000 – 2002



This 232 page book introduces the 103 researchers who participated in the EMBO Young Investigator Programme between 2000 and 2003. For each scientist there is a photo, short CV, list of selected publications and an outline of their research activities. This book serves as a useful guide for up-coming researchers in Europe as well as for all other interested parties.

[www.embo.org/publications/yip/YIP\\_booklet\\_pub.pdf](http://www.embo.org/publications/yip/YIP_booklet_pub.pdf)

### EMBO/EMBC annual report 2002



Published in May 2003, it covers both the EMBC and EMBO. This annual report details activities, gives an overview of the various programmes, lists (new) members, staff and statistics covering both organizations.

[www.embo.org/publications/reports/Ann\\_Report\\_02.pdf](http://www.embo.org/publications/reports/Ann_Report_02.pdf)

### 2<sup>nd</sup> international teachers workshop 2003



This is an abstract book of the 2<sup>nd</sup> International Practical Workshop for Science Teachers that took place in Heidelberg in May 2003. It contains the detailed programme and speakers' abstracts as well as a list of participants and exhibitors.

A flyer giving information in different languages on the eight national teachers workshops taking place in 2003 and 2004 was also published by the Communication office.

[www.embo.org/publications/reports/Ann\\_Report\\_02.pdf](http://www.embo.org/publications/reports/Ann_Report_02.pdf)

### careers in the life sciences



EMBO together with ELSF published a booklet on careers in the life sciences. The 24-page booklet gives recommendations to scientists in training, their supervisors, institutions, funding organizations and governments on how to improve career perspectives for life scientists in Europe.

[www.embo.org/publications/careers/CAREERS.PDF](http://www.embo.org/publications/careers/CAREERS.PDF)

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**frontiers of molecular biology**



This 44 page abstract booklet, published for the EMBO Members Meeting held in October 2003 in Killarney, Ireland, presents the 2002 new members together with their research details and photo.

[www.embo.org/publications/members/frontiers\\_03.pdf](http://www.embo.org/publications/members/frontiers_03.pdf)

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**The 1,215,304,107<sup>th</sup> Annual summit of the World Microbial Organization**



Savvas N. Savvides, the winner of the 2003 science writing prize, presents an entertaining piece communicating the topic of current and re-emerging microbial pathogens in an anthropomorphic way.

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**trust and communication in molecular biology**



This 15 page booklet covers the special session on Science and Society held in 2003 in Killarney, Ireland. Public trust in science and scientists is strongly dependent on public communication from scientists. The meeting was aimed at giving scientists an insight into this topic, and to allow them to discuss how best to respond as individuals, and as a community.

[www.embo.org/projects/scisoc/download/killarney\\_booklet.pdf](http://www.embo.org/projects/scisoc/download/killarney_booklet.pdf)

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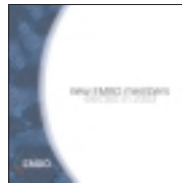
**biology since the double helix**



This 80 page report covers EMBO's 2<sup>nd</sup> International Practical Workshop for Science Teachers in May 2003 which started CeeBT, the EU-funded project coordinated by EMBO on continuing Education for European Biology Teachers. 123 teachers participated, their common goal being to learn more about molecular biology and how it can be translated into experiments suitable for school.

[www.embo.org/projects/scisoc/download/teachers/twReport03screen.pdf](http://www.embo.org/projects/scisoc/download/teachers/twReport03screen.pdf)

**new EMBO members  
elected in 2003**



A new concept, this 16 page booklet serves to highlight the important work and contributions to science of our new members. It gives brief research details and a photo for the 31 new and four associate members of 2003.

[www.embo.org/publications/new\\_members/new\\_members\\_2003.pdf](http://www.embo.org/publications/new_members/new_members_2003.pdf)

**publications  
supported by EMBO**

**Review of the  
French Genopole System**



The French Ministry of Research approached EMBO in 2002, inviting it to perform an evaluation of the French Genopole system. This 43 page booklet gives reports on the various Genopole nodes, platform evaluations and conclusions showing strengths, weaknesses and recommendations.

[www.embo.org/publications/reviews/EMBO\\_genopole\\_review.pdf](http://www.embo.org/publications/reviews/EMBO_genopole_review.pdf)

**Building on a record  
of achievement: Planning  
document on the future  
of the EMBC/EMBO**



This 34 page booklet published in 2003 was prepared for the European Molecular Biology Conference (EMBC) and discussed and refined at a series of meetings that took place in 2001 and 2002 prior to the decision of the EMBC to prolong its Agreement. It provides the framework for the future actions that the EMBC may undertake in conjunction with EMBO.

[www.embo.org/publications/organization/embc\\_plan.pdf](http://www.embo.org/publications/organization/embc_plan.pdf)



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**Research and education  
in resource-constrained  
countries**



This report provides background data and information on research accomplishments, the level of educational opportunities and policy trends for life sciences research in a selection of countries across Africa, Latin America, Asia, Eastern Europe and the Middle East. The European Molecular Biology Organisation (EMBO), the Human Frontier Science Program (HFSP), the Third World Academy of Sciences (TWAS) and the Wellcome Trust have sponsored the preparation of the document.

[www.embo.org/publications/world/report\\_03.pdf](http://www.embo.org/publications/world/report_03.pdf)

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**Genetics, Determinism and  
Human Freedom**



An 80 page booklet on this year's EMBO/EMBL joint science and society conference 'Genetics, Determinism and Human Freedom' that attracted more than 250 participants from 24 different European countries and the USA.

[www.embo.org/projects/scisoc/download/s&s\\_abstracts03.pdf](http://www.embo.org/projects/scisoc/download/s&s_abstracts03.pdf)

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**European Research Council –  
the life scientist's view**



This 20 page booklet provides a summary on the position of the Life Sciences community. It is hoped that its proposals will strengthen the justification for the establishment of an ERC and, more significantly, help define its mission as well as its actions and mode of delivery.

[www.elsf.org/elsfbrochures/elsferc03.pdf](http://www.elsf.org/elsfbrochures/elsferc03.pdf)

Scale of contributions  
from EMBC member  
states based on net national  
income at factor cost

	Scale of contribution for 2001-2009 (%)
Austria	2.2871
Belgium	2.8229
Croatia	0.2439
Czech Republic	0.6702
Denmark	1.6849
Finland	1.1880
France	15.7262
Germany	23.2163
Greece	1.3991
Hungary	0.4749
Iceland	0.0818
Ireland	0.7906
Israel	0.9640
Italy	12.3794
Netherlands	4.1554
Norway	1.4857
Portugal	1.2852
Slovenia	0.1765
Spain	6.4705
Sweden	2.4980
Switzerland	3.2272
Turkey	2.4351
United Kingdom	14.3340
special balancing contribution	0.0000
total	100.0000
Poland*	1.1588

	Scale of contribution for 2004–2006 (%)
Austria	2.0900
Belgium	2.5944
Croatia	0.2032
Czech Republic	0.6139
Denmark	1.5800
Finland	1.2362
France	14.8830
Germany	20.7922
Greece	1.3925
Hungary	0.5573
Iceland	0.0903
Ireland	0.9230
Israel	1.0958
Italy	12.1778
Netherlands	4.0806
Norway	1.6929
Poland	2.1200
Portugal	1.1368
Slovenia	0.2932
Spain	6.4358
Sweden	2.4625
Switzerland	3.1173
Turkey	2.3194
United Kingdom	16.1718
Total	100.0000

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	Pauline Cupit *	Assistant	
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Eilish Craddock (left), Personal Secretary to Professor Frank Gannon and Kerstin Hiester (right), Administrator



Seán Bourke welcomes visitors to EMBO at the reception.



- \* Left during the course of the year 2003
- \*\* Started in 2004
- \*\*\* Left in 2004



**SPEAKERS**  
new EMBO members  
elected in 2003

Jelle Ahringer

Linda Amos

Johan Auwerx

David Barford

Yoon Ben-Hariz

Ana Carreira

Barry Dickson

James Frisén

Brigitte Gicquel

Eric Gilson

Michael Glotzer

Bruno Groud

Utg Hackar

Michael Hangartner

Rogine Henzge-Aronis

Nobuhiko Hirokawa

Christof Höög

Dirk Inzé

Roger D. Kornberg

Nicholas La Thangue

Noel F. Lowndes

Alberto Lufi

Toml Mikreli

Angel Nebreda

Tony Pawson

Thomas Perlmann

Didier Picard

Wolf Reik

Robert G. Roskar

Thomas Sommer

Jesper Svejsrup

Bryan Turner

Gerrit van Meer

Dietlef Weigel

Ben Willmet

# frontiers of molecular biology

EMBO members meeting. Open to everybody.

15–19 October 2004

48°13' N 15°40' E • Vienna, Austria

The programme will cover  
a wide range of topics and  
includes

- a mini-symposium on  
"Chromatin and Transcription"
- and
- a workshop in  
communication with  
the public and politicians  
"Getting the message  
across"

Local organizers

Renate Schroeder

Denise Barlow

Andreas Barts

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[www.emboworkshop2004.at](http://www.emboworkshop2004.at)

**upcoming events 2004**

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**practical courses 2004**

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**lecture courses 2004**

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**workshops 2004**

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**conferences 2004**

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**world programme activities 2004**

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<b>practical courses 2004</b>	Plant development: the molecular and cellular basis	J. A. Feijó M. Oliveira	P – Oeiras	March 22 – April 7
	Structural characterization of macromolecular complexes: modern techniques and strategies	C.W. Müller <i>et al.</i>	F – Grenoble (EMBL)	May 3 – 8
	Gene quantification by real-time qRT-PCR	V. Benes <i>et al.</i>	D – Heidelberg (EMBL)	May 9 – 13
	Digital image microscopy	I.T. Young <i>et al.</i>	NL – Delft	May 10 – 14
	Automated macromolecular structure solution	A. Perrakis <i>et al.</i>	NL – Amsterdam	May 25 – June 1
	Microarray technology: genome - proteome - function	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	May 29 – June 5
	Molecular genetics with the fission yeast <i>Schizosaccharomyces pombe</i>	R. Egel O. Nielsen	DK – Copenhagen	June 6 – 18
	Microinjection, transfection and detection of probes in cells	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	June 7 – 12
	Advanced techniques in molecular medicine (Joint EU/EMBO course)	U. Landegren <i>et al.</i>	S – Uppsala	June 7 – 15
	Transient kinetics applied to biological macromolecules	M.A. Geeves <i>et al.</i>	UK – Canterbury	July 11 – 17
	Animal models for development and disease	P.I. Ingham V.T. Cunliffe	UK – Sheffield	July 12 – 24
	Biomolecular simulation	M. Nilges R. Wade	F – Paris	July 18 – 25
	Protein expression, purification and crystallization (PEPC4)	P. Tucker <i>et al.</i>	D – Hamburg (EMBL)	August 11 – 18
	Multidimensional NMR in structural biology	R. Kaptein <i>et al.</i>	I – Il Ciocco, Lucca	August 15 – 20
	Cryo-electron microscopy and 3-D image analysis	A. Hoenger <i>et al.</i>	D – Heidelberg (EMBL)	September 5 – 14



Anatomy and embryology of the mouse	A. Marusic <i>et al.</i>	HR – Zagreb	September 11 – 19
Electron microscopy and stereology in cell biology (Joint FEBS/EMBO course)	I. Fernandez <i>et al.</i>	F – Paris	September 12 – 22
Multi-photon imaging of living cells and tissues	W. Denk A. Konnerth	D – Munich	October 11 – 17
Solution scattering from biological macromolecules	D. Svergun R. Willumeit	D – Hamburg (EMBL)	October 29 – November 5
Serial analysis of gene expression	F. Baas <i>et al.</i>	NL – Amsterdam	November 8 – 13

Receptor mechanisms and signal transduction	I. Kramer <i>et al.</i>	F – Bordeaux	July 14 – 19	<b>lecture courses 2004</b>
3D structure databases – uses for biological problem solving	K. Henrick J. Thornton <i>et al.</i>	UK – Cambridge	September 20 – 24	

<b>workshops 2004</b>	Protein sorting in the secretory pathway	S. Tooze <i>et al.</i>	A – Goldegg	January 13 – 18
	Epithelial polarity in development and disease (Joint CNRS/EMBO workshop)	T. Lecuit <i>et al.</i>	F – Carry le Rouet	March 27 – 31
	A critical assessment of text mining methods in molecular biology (Joint E-BioSci/EMBO workshop)	A. Valencia <i>et al.</i>	E – Granada	March 28 – April 1
	Telomeres and genome stability (Joint 58 <sup>th</sup> Harden conference/EMBO workshop)	D. Rhodes <i>et al.</i>	UK – Cambridge	April 3 – 7
	Recombination mechanisms: 40 <sup>th</sup> anniversary meeting of the Holliday Model	A. Nicolas S. West	F – Seillac	May 24 – 28
	Advanced light microscopy: 4 <sup>th</sup> international ELMI meeting	T. Nilsson <i>et al.</i>	S – Gothenburg	May 26 – 28
	Mechanisms of immunity (Joint ENII/EMBO workshop)	P. Ricciardi Castagnoli <i>et al.</i>	F – Ile des Embiez, Var	May 26 – 30
	Molecular and developmental biology of <i>Drosophila</i> : 14 <sup>th</sup> international EMBO workshop	T. Kaufman <i>et al.</i>	GR – Kolymbari, Crete	June 20 – 26
	Mechanisms of genomic integrity (Joint SFI/EMBO workshop)	N. Lowndes <i>et al.</i>	IRL – Galway	June 21 – 24
	Molecular mechanisms of transposition, its regulation and evolution	A. Bucheton D. Finnegan	F – Roscoff	June 26 – 30
	AFM applications in biology (Joint FEBS/EMBO workshop)	L.V. Melo <i>et al.</i>	P – Lisbon	July 7 – 9
	Lymphocyte antigen receptor and coreceptor signalling	C.T. Baldari <i>et al.</i>	I – Siena	September 11 – 15
	Calcium signalling and disease	E. Carafoli <i>et al.</i>	I – Capri	September 20 – 23
	Cell biology of virus infections	J. Krijnse Locker <i>et al.</i>	D – Heidelberg (EMBL)	September 25 – 29
	The Hsp90 chaperone machine	D. Picard J. Buchner	CH – Gwatt	September 25 – 29
	Cell growth and the cell cycle: XIII European cell cycle conference	S. Moreno <i>et al.</i>	E – Salamanca	September 30 – October 3

Nuclear organization – from basic science to application	H.J. Lipps S. Gasser <i>et al.</i>	D – Elmau	October 7 – 10
Frontiers of molecular biology (EMBO members workshop)	R. Schroeder <i>et al.</i>	A – Vienna	October 15 – 19
Spatial and temporal dynamics of the endomembrane system (Joint FEBS/EMBO workshop)	D. Holden H. Stenmark	E – San Feliu de Guixols	October 16 – 21
Interpreting hedgehog-gli signalling (Joint Juan March/EMBO workshop)	I. Guerrero A. Ruiz i Altaba	E – Madrid	October 25 – 27
Pathogenesis of amoebiasis: from genomics to disease	D. Mirelman <i>et al.</i>	IL – Kibbutz Ein Gedi	November 16 – 20
Oncogenes and growth control (Joint EMBL/SALK/EMBO conference)	A. Nebreda <i>et al.</i>	D – Heidelberg (EMBL)	April 17 – 20
Molecular microbiology: exploring prokaryotic diversity (Joint EMBL/EMBO conference)	V. de Lorenzo <i>et al.</i>	D – Heidelberg (EMBL)	April 22 – 26
Cytoskeletal dynamics: from cell biology to development and disease (Joint FEBS/EMBO conference)	O. Carpén P. Lappalainen	FIN – Helsinki	June 12 – 16
The ubiquitin proteasome system in health and disease (Joint 59 <sup>th</sup> Harden/EMBO conference)	R.J. Mayer C. Gordon	UK – Cirencester	September 6 – 10
Structural biology at crossroads: from biological molecules to biological systems (Joint EMBL/EMBO conference)	M. Wilmanns <i>et al.</i>	D – Hamburg (EMBL)	September 15 – 18
Functional genomics conference II: exploring the edges of omics (Joint EMBL/EMBO conference)	E. Furlong N. Barkai <i>et al.</i>	D – Heidelberg (EMBL)	October 16 – 19
Structures in biology (Joint EMBL/EMBO conference)	D. Suck <i>et al.</i>	D – Heidelberg (EMBL)	November 10 – 13

**conferences 2004**

<b>world programme courses 2004</b>	Microarray techniques: applications in bio-medical research (Joint EMBO/A-IMBN course)	W. Ansorge <i>et al.</i>	Tokyo, Japan	March 14 – 21	
	Electrophysiological concepts and techniques for studying cells (Joint ICRO/UNESCO/EMBO course)	W. Stühmer <i>et al.</i>	Ribeirão Preto, Brazil	April 4 – 18	
	Molecular motors and the cytoskeleton (Joint ICRO/UNESCO/EMBO course)	L.C. Cameron <i>et al.</i>	Rio de Janeiro, Brazil	June 7 – 18	
	Phagocytosis and intracellular microorganisms (Joint AMSUD-Pasteur/EMBO course)	M.I. Colombo <i>et al.</i>	Mendoza, Argentina	August 23 – September 3	
	Plant reproduction	W-C. Yang <i>et al.</i>	Beijing, China	August 25 – September 7	
	Functional imaging in cell and developmental biology	P. Bastiaens <i>et al.</i>	Bangalore, India	September 12 – 19	
	Methods for protein simulations and drug design (Joint CAS/EMBO course)	F. Meyer <i>et al.</i>	Shanghai, China	September 13 – 24	
	Proteomics and human diseases (Joint CAS/EMBO/Tongji course)	W. Hennig	Wuhan, China	September 13 – 26	
	New technology in vaccine development (Joint ICRO/UNESCO/EMBO course)	J. Soedarsono <i>et al.</i>	Yogyakarta, Indonesia	September 20 – 30	
	Structural and evolutionary genomics (Joint ICRO/UNESCO/EMBO course)	G. Bernardi <i>et al.</i>	San José, Costa Rica	December 5 – 10	
	Live cell imaging	E. Stelzer <i>et al.</i>	Singapore	date to be confirmed	
	<b>world programme workshops 2004</b>	Cell signalling and development (Joint EMBO/CAS)	P. Ingham, K. Liao	Shanghai, China	June 28 – 4 July
		Cell interactions in development and disease	S. Cohen, L.S. Shashidhara	Hyderabad, India	December 16 – 18



The members' workshop 2003 took place in Killarney, Ireland. The 2004 meeting will take place in Vienna.

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